# **Responsible Science: Celebrating the 50-year Legacy of Ball and Brown** (1968) using a Registration-based Framework

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#### Abstract

This paper represents the intersection of three spheres of influence, highly relevant to the global research community interested in a more reliable understanding of capital market phenomena. First, as a timely context, we celebrate the 50-year legacy of an iconic paper on event studies, Ball and Brown (1968). Second, we add our voice to the growing call for researchers to follow principles of "responsible science". Third, using the Ball and Brown paper as their inspiration, we report on an experiment in which several teams of researchers follow a registration-based editorial process, which illustrates one fruitful avenue on how more responsible research can be fostered in the future.

#### 1 Introduction

Our study brings together three spheres of influence, highly relevant to the global research community interested in a more reliable understanding of capital market phenomena. First, we celebrate the 50-year legacy of an iconic paper on event studies, Ball and Brown (1968) [BB68]. BB68 is shown to have a seminal influence, far beyond the seemingly narrow question it originally posed all those years ago (namely, around whether accounting information is useful). Second, we add our voice to the growing call for researchers to follow principles of "responsible science". For example, there are concerns that researchers make "subtle" research design choices that see a mid-term shift in the goal posts (The Economist 2016).<sup>1</sup> Third, using the Ball and Brown paper as their inspiration, we provide a collective overview on an "experiment" in which several teams of researchers follow a registered research design that illustrates one angle on how more responsible research might be fostered in the future. This group of papers all published in the *Pacific-Basin Finance Journal* (PBFJ), constitutes a virtual special issue of the *PBFJ*, for which our paper is the lead article.

BB68's core research question is: are accounting income numbers useful? If so, useful to whom? And for what purpose?<sup>2</sup> The authors were broadly motivated by "a priori" research which dominated the accounting literature in the mid-1960s. The two central "knowns" at the time were: (1) historical cost (existing) financial statement information is meaningless; (2)

<sup>&</sup>lt;sup>1</sup> The article in The Economist (2016), "For my next Trick ..." reported on the prevalence of outcome switching in clinical trials. Evidence shows that researchers fail to report on outcomes specified in the documents describing what the trial would be doing and, instead, choose to report on new outcomes that were not specified in the documents. Also see the following for additional discussion: BMC Medicine meta study (Helfer et al. 2015); PLOS ONE meta study (Donnelly et al. 2015); and COMPare group website: http://compare-trials.org/results.

<sup>&</sup>lt;sup>2</sup> Ball and Brown (1968) is ostensibly an "accounting" study, though at the time leading up to its publication in the *Journal of Accounting Research*, its "accounting" credibility was far from agreed. Indeed, it is now well known that the paper was first rejected by the then Editor of *The Accounting Review* essentially because it is not accounting research (Howieson, 2019).

radical changes to financial statement information is needed. But these "knowns" were not based on any objective/"scientific" evidence – such evidence was the big unknown that the field was desperately needing in order to advance as a "science". BB68 find: (1) information content of accounting income numbers is considerable; (2) accounting income numbers per se do not deliver very timely information; (3) an anomalous post-earnings announcement drift (PEAD), lasting up to 2 months.<sup>3</sup> As documented by Clinch, Lyon, and Pinnuck (2019); Fargher and Wee (2019) and Howieson (2019) in this virtual special issue of *PBFJ*, BB68 had a phenomenal impact on scholarly research – not only in accounting, but also in finance and capital market studies.<sup>4</sup> With a half-century of history behind it, it is now very timely to have this PBFJ special issue help us reflect on and warmly celebrate this iconic study.

The second element of our focus is motivated by the growing view that research is in a state of crisis. For example, (cRRBM 2017) have released a position paper on responsible research in business and management, primarily motivated by a credibility crisis in science.<sup>5</sup> As they clearly state, the crisis has two related parts: (a) a crisis of integrity – "… the credibility of the knowledge published in journals is in doubt" [p.9] and (b) a crisis of relevance – the "… widening gap between research and practice, with business research in many domains increasingly divorced from the real-world practices" [p. 3]. The former of these issues is of particular relevance to our study, mainly in relation to one emerging practice across the broader

<sup>&</sup>lt;sup>3</sup> See Appendix A for a wide-ranging but succinct summary of the scholarly thrust of their paper (utilising Faff's (2015, 2018) "pitching research" framework).

<sup>&</sup>lt;sup>4</sup> Indeed, early in 2019, Professors Ray Ball and Philip Brown were awarded the Wharton-Jacobs Levy Prize for Quantitative Financial Innovation, for their 1968 paper. Specifically, the award recognises the significant and sustained influence that BB68 has had on practice in the finance industry, including investment analysis, portfolio management and the provision of financial data services.

<sup>&</sup>lt;sup>5</sup> There are 28 founding members of the Community for Responsible Research in Business and Management (cRRBM), spanning all of the major Business School disciplines. Notable amongst this group are three leading finance scholars: Franklin Allen, Ulrich Hommel and Maureen O'Hara.

scholarly journal community induced by the integrity crisis, namely, to publish academic articles that have come through a registration-based editorial process.

Prior to any (serious) data collection or empirical analysis within a registered design setting, an "in-principle accept" (IPA) decision is granted to research proposals deemed to be of sufficient merit. If the authors execute the study in line with the approved design and do not invoke some unforeseen major issue/concern that would render the IPA void, then publication will follow. The attractive feature of this process is that the credibility and careful execution of the design is all that matters – the fact that the findings might turn out to be statistically insignificant is of no consequence. In theory, this approach helps us fight against a perceived "positive" bias of findings in published papers<sup>6</sup> – and help researchers avoid the evil temptations of "p-hacking" and HARKing.<sup>7</sup> Munafo et al. (2017) recommend the registration approach as part of their broad manifesto for reproducible science.<sup>8</sup> Registration "… makes clear the distinction between *data-independent confirmatory research* that is important for testing hypotheses, and *data-contingent exploratory research* that is important for generating hypotheses" (Munafo, et al., 2017, p. 3; *emphasis added*).

A significant subset of the current *PBFJ* special issue papers have followed a customised form of registration-based editorial process, as described later. These papers, with

<sup>&</sup>lt;sup>6</sup> Among other things, Nosek and Lakens (2014) argue ignoring replications and negative results is bad science.

<sup>&</sup>lt;sup>7</sup> According to Munafo et al. (2017), there is a related "reproducibility" crisis, i.e., that well-known published papers defy meaningful replication. These authors also suggest two seemingly common practices that add to the threat to reproducible science: p-hacking – or "data dredging" and HARKing – Hypotheses After the Results are Known.

<sup>&</sup>lt;sup>8</sup> The registration-based approach is not new in accounting or finance journals. In accounting, the *Journal of Accounting Research* (JAR) themed its 2017 annual research conference around registered reports. For details, see <u>https://bit.ly/2zRkmUW</u>. In finance, in 2017 the *Review of Financial Studies* put out two calls for "proposals" – one on the topic of FinTech and the other on Climate Finance. For details, see <u>https://bit.ly/2SL2jHd</u> and <u>https://bit.ly/2QpFBaz</u>, respectively.

their chosen topics inspired by BB68, are: Aman et al. (2019); Berkman, Jona, and Soderstrom (2019); Bohmann et al. (2019); Han et al. (2019); Howieson (2019); and Hillier and Loncan (2019).<sup>9</sup> There are several additional papers focusing on the Ball and Brown legacy included in the special issue (Ball and Brown 2019; Clinch, Lyon, and Pinnuck 2019; Fargher and Wee 2019).

The remainder of this paper is structured as follows. Section 2 provides a brief summary of the papers belonging to the virtual Special Issue of *PBFJ* that focus on the broader Ball and Brown legacy. Section 3 outlines the process and key elements underlying the registration-based editorial process, founding the PBFJ virtual special issue. Section 4 then provides a brief commentary across the group of special issue papers. Section 5 gives voice to the reflections from each of authorship teams and the reviewers – especially, with regard to the challenges they faced around following a registered design. The focus here is "what worked", "what didn't work" and thinking about how an improved registration-based format might be developed as a regular article type at PBFJ. Section 6 concludes.

# 2 Summary of PBFJ Special Issue Papers that Focus on the BB68 legacy

Ball and Brown were commissioned by the current Editor-in-Chief of *PBFJ* to replicate BB68 for this virtual special issue, and to investigate "how different the USA results will be with over 50 years of more recent data and with a larger and possibly wider set of listed firms" (p.411,

<sup>&</sup>lt;sup>9</sup> From the 12 initially 'signed-up' teams, six teams for varying reasons, did not make it through to the end (at the time of writing). However, it is hoped that after completing an appropriate review process one or two of these might eventually be "tagged into" the BB68 virtual special issue.

Ball and Brown 2019). In the replication, the authors extended the time period examined to include data from 1971 to 2017, and to include 16 other countries besides the US. Ball and Brown (2019) show that the principal findings documented in their original paper consistently replicate across this broader setting. That is, the "change in annual accounting earnings... continues to encapsulate a large fraction of the information that investors trade into share prices over the year" (p. 411).

In a qualitative study, Howieson (2019) investigates the perception of the influence that BB68 has had on accounting research, education, standard setting, and practice. The author conducts an extensive literature review and 27 interviews with subjects drawn from academe, practice and standard setting from around the world. The main research question here is: "whether BB68 constructed a monstrous paradigm akin to that of Frankenstein's creature or was it a work possessing the beauty of Venus?" (p.3 Howieson, 2019). The study provides insights into the reasons for the popularity of BB68 and explores both the positive and negative impacts of the research methodology inspired by BB68. The paper concludes with discussion on the future relevance of BB68 and the importance of striving for research excellence.

Two other papers are included in the special issue to examine the broader influence of BB68 – Clinch et al (2019) and Fargher and Wee (2019). Clinch et al (2019) review the impact of BB68 on accounting and finance research in the Asia-Pacific region. The authors consider impact by examining the magnitude and the nature of the published literature directly linked to BB68. Their analysis indicates that the level of impact of BB68 using citation and visualisation techniques. They argue that direct citations greatly underestimate the impact of seminal research, and that simply by moving to two degrees of separation increases the number of citations of BB68 by an order of magnitude, relative to the number of direct citations. By

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studying the networks of citation relations, the authors suggest that we are better able to study the synergies between ideas that are a significant factor in stimulating research progress.

#### **3** Overview of the BB68 Special Issue Review Process

As mentioned above, the virtual special issue also features several papers that have used BB68 as their inspiration. These papers are authored by teams of researchers who have followed a registered research design process. The papers that come through the process are given an "in-principle accept" (IPA) decision prior to any (serious) data collection or empirical analysis. The attractive feature of this process is that the credibility and careful execution of the design is the prime concern – the fact that the findings might turn out to be statistically insignificant does not matter (Nosek and Lakens 2014).<sup>10</sup>

The process leading to this special issue began in mid-March 2017, with an email from the Editor-in-Chief of PBFJ, targeting various senior researchers (including Philip Brown),<sup>11</sup> canvassing the broad concept of the Ball and Brown (1968) special issue built on a registration-based editorial process. Based on a unanimity of positive responses, a framework of paper development and review was designed to capture a period of approximately 20 months. Some additional considerations included:

 The topic of each paper must fit within the broad theme – have a sufficient link/focus to the broad literature spawned by BB68.

<sup>&</sup>lt;sup>10</sup> As Nosek and Lakens (2014, p. 137) argue that registered reports are only a partial solution to research that lacks credibility, such studies are still subject to Type I and Type II errors.

<sup>&</sup>lt;sup>11</sup> To make the current experiment more expedient, the Editor-in-Chief took the view that it was better to commission teams led by senior and experienced researchers, rather than make an open call for "proposals". An open call would be a feature of any ongoing extension of this process in PBFJ in the future.

- 2) All pitch teams formally attest to the ex-ante nature of the project while some very preliminary work may have taken place, it is largely a new piece that will be substantially developed during the designated time window.
- All main authors agree to be a reviewer on another special issue paper. The reviewing role is not anonymous and potentially quite "ongoing".
- The review process has a three-phase design: (a) original pitch; (b) registered study design; (c) full paper review. Each of the stages is elaborated briefly below.

#### 3.1 Phase I: Original Pitch and Review

Following the initial email in mid-March 2017, twelve team leaders were given a short period of time to determine their team's membership. Once team members were decided, the team had to supply a broad topic to the Special Issue Guest Editor by early-mid April 2017 (primarily to avoid any significant overlap in planned research). As its major task, the first phase involved each team creating an initial 1,000 word (maximum) initial research pitch based on Faff's (2015, 2018) "Pitching Research" framework. Moreover, each team was asked to deliver a written version and to present an oral pitch to an audience at one of the following symposia:

- (a) International Accounting and Finance Doctoral Symposium (IAFDS) held in Krakow,
   Poland (15, June 2017) four teams pitched here;
- (b) Finance Special Interest Group, at the Accounting and Finance Association of Australia and New Zealand (AFAANZ) conference, held in Adelaide (1, July 2017) – seven teams pitched here;
- (c) SIRCA Pitching Research Symposium, held at University of Technology Sydney (21, July 2017) – one team pitched here.

Each oral pitch was given 30 minutes, comprising a 15-minute pitch and up to 15 minutes of discussion/brainstorming. In the case of each oral pitch, the feedback supplemented written feedback from the designated reviewers. Each team was given time to revise their Stage I pitches accordingly, with a further review required to allow each pitch to be "locked in", as a pathway towards the registered proposal in Phase II. The teams were warned that registered pitches must be deemed substantive, meaningful and sufficiently specific that PBFJ reviewers can get a sense of "accountability" around the credibility of the likely research design and associated outputs. The aim was to have this Phase I process completed by end of August 2017, but several teams required a longer period to achieve this step. Appendix A exhibits the full set of locked in pitches from Phase I.

#### 3.2 Phase II: Registered Study Design and Review

It was explained to all teams, that the purpose of the Phase II "study registration" process is to cohesively build on the Phase I registered pitch and (in-principle) to agree on a set of research protocols that, if adhered to, will result in publication regardless of the nature of the results (subject to professional write up). It builds on and articulates with the phase I ["registered pitch"] process. A sufficiently rigorous and well-planned design must be formulated such that the results will be **reliable, credible and reproducible**, whether or not the ultimate findings prove statistically significant. This does **not** mean that ideas and tests that are outside the protocols are precluded or unimportant. Rather, the registration process will distinguish between **confirmatory** (hypothesis) testing [Part A] research, and post-registration analysis deemed to be "**exploratory**" [Part B]. It is therefore important that the registered project is specific enough to capture as much as possible in "Part A" of the published paper. The

registration document should present a specific plan of the research, under three broad headings:

- 1) Registered Pitch;
- 2) Hypotheses; and
- 3) Method and Plan.

To assist researchers and reviewers, we developed a set of guidelines in the form a checklist. These Stage II guidelines are reproduced in Appendix B. The goal was to have each Phase II registered design lock in by early 2018. However, several teams struggled with this timeframe. Additionally, the review process took longer for Phase II than anticipated. Accordingly, several teams did not have their Phase II completed until April (or later) 2018. The Phase II registered study designs are available in the companion Internet appendix.

# 3.3 Phase III: Full Paper Review

The final phase involved a full paper review. This incorporated another oral presentation, timed to coincide with the 2018 AFAANZ Conference in Auckland. Specifically, teams were asked to present an update of their projects at the Finance SIG, held on 30 June 2018. A total of seven teams delivered this second oral presentation.<sup>12</sup> Specifically, each team was allocated a 45-minute slot, comprising presentation and feedback components. Feedback was taken on board to help fine tune the full paper write up.

<sup>&</sup>lt;sup>12</sup> Due to time zone differences, scheduling and geographic obstacles, the Hillier and Loncan (2019) team did not deliver a second oral presentation.

Teams were asked to complete and submit their final full paper for review – ideally, by the end of July 2018. However, several teams required more time to polish their full papers, prior to Phase III submission. Reviewers were asked to focus on:

- 1) compliance/ accountability/ conclusions,
- 2) identifying departure from the registered Phase II proposal, and
- checking that, in the context of issues raised in item 2, (a) clear justification and explanation be given in the final paper and (b) such unplanned analysis is clearly segregated into a later section of "exploratory" or "post hoc" analysis.

# 4 Brief Overview of BB68 Special Issue Empirical Papers

The following are summaries of the five empirical papers that have followed the registrationbased process and are featured in the virtual special issue.

#### 4.1 Aman, Beekes, Chang and Wee

BB68 inspired Aman et al. (2019) to better understand the relation between information released by a firm's managers in the form of the forecasts of the next year's earnings and analysts' forecasts of the same. In the way that BB68 investigated whether accounting information was useful (value relevant) and timely to the market, this study examines whether management's earnings forecasts provide useful information to analysts in forming their own forecasts and vice-versa.

Aman et al. (2019) extend BB68 by taking credibility into consideration, as is common place in the management forecast and analyst forecast literature today. They consider the role credibility plays in the analyst response and earnings expectation relationship by posing the following question: is the relation between management and analyst forecasts affected by assessments of the credibility of the forecast provider? Specifically, they study whether a moderating role exists for credibility in the relationship. Management credibility is evaluated by their prior forecasting ability and the firm's underlying corporate governance structure. On the other hand, analyst credibility is assessed using their prior forecasting ability.

Using a Structural Equation Modelling approach, the authors find management's credibility moderates the relation between management's initial earnings forecast for the year and subsequent analyst consensus forecasts. Consistent with expectations, analyst credibility has a moderating effect on the relation between analysts' consensus initial forecasts and management forecast revisions.

#### 4.2 Berkman, Jona and Soderstrom

The research idea in Berkman, Jona, and Soderstrom (2019) is based on a related paper, Berkman, Jona, and Soderstrom (2018), which introduces a novel measure of firm-specific climate risk. Berkman, Jona, and Soderstrom (2019) propose to examine the impact of government commitment to combating climate change on firm value in relation to a firm's climate risk exposure. They first identified major recent regulatory events around climate change that are not fully predicted, including the surprise election of Donald Trump to President of the US and the Paris Climate Change agreement. Reminiscent of BB68, who focus on firms with good news versus bad news, the authors predicted opposite changes in value for polluting firms (with a high score on climate risk exposure) relative to non-polluting firms (with a low score on climate risk exposure) in reaction to these regulatory changes. Results are consistent with their expectations. For example, they find that around the surprise election of Donald Trump, the market value of firms with high climate risk increases relative to the value of firms with low climate risk, and they find the exact opposite results around the Paris Climate Change agreement, which represents an increased commitment to combatting climate change. This research relates to literature linking accounting disclosure to stock prices, going back to BB68 and Beaver (1968), as well as more recent evidence on the value relevance of mandatory risk disclosures (Campbell et al. 2014). Importantly, this study contributes to the literature on climate change and provides evidence that their climate risk metric, constructed from mandatory climate risk disclosures, is a useful summary measure of firm-specific climate risk that helps explain variation in market valuations across firms (see also Berkman et al. 2018).

#### 4.3 Bohmann, Michayluk, Patel and Walsh

The authors are inspired by Ball and Brown (1968; 2014) to focus on accounting information in the form of earnings announcements and examine the relationship with liquidity using an event study setting. Liquidity is a complex concept that can be measured in many ways, including using extremely detailed trading data but this is in stark contrast to the quarterly or half-yearly earnings data. Furthermore, concerns have emerged regarding the growth in the size, computation burdens and cost of using detailed microstructure data, as well as the suggestion that low-frequency liquidity measures in microstructure, asset pricing and corporate finance research may be just as effective. As a result, the authors examine whether data granularity increases our understanding of financial markets, that is, can low-frequency liquidity measures proxy for high-frequency benchmarks when there is information asymmetry in the market, specifically around Australian earnings announcements.

Their findings support the use of easily determined end of day measure. They find that the Closing-Percent-Quoted-Spread is the best proxy for quoted spreads, effective spreads, price impact and realised spreads when examining percent-cost liquidity measures. This result is robust using different correlation methods; root-mean-squared-error analysis; during the full sample, event, benchmark, pre-announcement and post-announcement periods around earnings announcements; and subsampling on earnings surprises, stock size, and around macroeconomic

and institutional changes in the Australian market. Due to variability across correlation methodologies and subsamples, the authors suggest taking caution when using cost-per-dollar liquidity measures to proxy for high-frequency lambda, in particular, when used in time-series analysis.

Consistent with the findings of Goyenko, Holden, and Trzcinka (2009) and Fong, Trzcinka, and Holden (2017), the authors document that low-frequency measures can proxy for their high-frequency counterparts. Their findings provide initial evidence that cost and computational savings are available to interested parties, for example, analysis of informed trading in markets where high-frequency data is unavailable.

#### 4.4 Han, Linnenluecke, Pan and Smith

Han et al. (2019) note that there is an identification problem when announcements have unresolved uncertainty. In this situation the method in BB68 cannot be applied because the price on announcement contains an outcome probability parameter as well as outcome price parameters. To solve this problem, the authors apply the method used in Barraclough et al. (2013). This method, which can be applied to any announcements with unresolved uncertainty, uncovers both probability and outcome parameters, and enables the price change on announcement to be split into news effects and valuation effects.

In their study, Han et al. (2019) are able to separate the news effect from the value effect associated with the announcement of the Australian Carbon Pricing Scheme (the "carbon tax") made on 24 February 2011. Their findings show that the news effect associated with the announcement is 1.11% (A\$254 million dollars), indicating that the market was favourably disposed towards the news that the government was taking action on climate change. The value effect was minus 4.46% (minus A\$1.12 billion dollars), indicating that the scheme destroyed significant value for existing firms. The announcement of the Australian Carbon Pricing

Scheme was more value-destructive for carbon-intensive firms (minus 6.97%) than for the other firms (minus 3.67%).

#### 4.5 Hillier and Loncan

Hillier and Loncan (2019) examine the relationship between political uncertainty and asset prices. The paper asks if political connections and foreign capital exposure influence how political uncertainty affects stock returns. The authors run an event study, exploiting an exogenous shock to political uncertainty in Brazil. Their findings suggest that the effect of political uncertainty on stock returns is stronger for politically connected firms and firms with higher exposure to foreign capital.

The research design is informed by BB68. The academic literature on political uncertainty often employs electoral periods as a source of political uncertainty affecting markets and firms. However, an issue with this approach is that political uncertainty around elections can be confused with economic policy uncertainty, since political parties can differ considerably in economic philosophy, and differences in economic orientation can affect asset prices in diverse ways.

By exploiting an exogenous shock to political stability, the authors capture the risks of a sudden and unexpected political fallout, one which endangered the very continuity of Brazil's presidential mandate. This event, for its unexpected nature, introduced new information content in stock prices, allowing the authors to investigate whether political connections and foreign capital exposure were factors in the price falls. In light of this, an event study design inspired by the pioneering work by Ball and Brown (1968) proved ideal for their analysis.

#### 5 Team Reflections

All teams signed up for the BB68 special issue were asked to reflect on the registration process and provide responses to the following three questions: (1) what worked? (2) what did not work? and (3) how to improve? Below we summarise the reflections and include quotes from the individual teams where the reflections are particularly insightful.

#### 5.1 What worked?

Given the concerns raised in Nosek and Lakens (2014) and Munafò et al. (2017), the teams are in support of the purpose and the use of the registered report process to improve the integrity of research. Most teams found the registration-based editorial process to be an effective way to safeguard and improve the quality of their research. One team commented that the "guidelines were very specific and intriguingly unusual" as teams were asked to present their research design before conducting the analysis and reference to the results.<sup>13</sup> Others felt registering their research design forced thoughtful discussions early on that might otherwise have occurred once they started working with the data. The following reflections from two of the teams speaks to the pertinent issue of publishing a non-result paper where the research question is important.

"In using the pitch template to define the research question and to discuss the contributions, the team was able to clearly identify the need to conduct the project. This was done without concerns about whether we will find any significant results and of not being able to publish a "non-result" paper."

"[I]t was refreshing to be involved in a project where the strength of the idea matters more than the actual result. This approach aligns with what we tell our students, but do not practice in our field of academic research: it is the quality of the questions that matters and not the actual results".

Some teams commented more specifically on the interactions involved in the process. It was noted that the interactions at the two conference presentations with the other author teams concurrently working on related projects were productive, resulting in better research

<sup>&</sup>lt;sup>13</sup> While the teams were encouraged to investigate the availability of the data (primarily for feasibility reasons), they were asked not to commence any (serious) analysis until after the research design has been registered. In a few cases, some very basic descriptive statistics are actioned with eye on project feasibility.

outcomes. One team found the process gave them "multiple opportunities to receive feedback and revise the paper accordingly" and that this helped with fine-tuning the write-up of their literature review. This also prompted them to compare their findings with those found using alternative approaches.

Another team noted that they "obtained continuous feedback on [their] choice of theories, research questions, methodologies and contribution". And that this "timely feedback, which was hugely beneficial, is normally relegated towards the end of a project, i.e., when it is presented at a conference or reviewed by a journal". The interactions with the other research teams and the referee, who was not anonymous, and the editors resulted in the teams having a sense of shared responsibility for the quality of the research. Others noted the benefits from the support provided from colleagues sharing the journey.

#### 5.2 What did not work?

Although the teams were generally approving of the registration-based process, several areas did not work smoothly and could potentially be improved. All teams struggled, to varying degrees, with the ("foreign") requirement to specify the research design upfront. At one extreme, this proved difficult for one of the teams that did not have a strong history of working together, resulting in the team withdrawing the project from the special issue.

<sup>&</sup>quot;The requirement ... meant that the team was locked into using a research design that might not, in hindsight, be best suited to answer the research questions. In the traditional editorial process, researchers continue to refine their research design to suit the distributions of their data (Bloomfield, Rennekamp, and Steenhoven 2018) and also to take into consideration feedback provided during the workshopping of the paper. ...[H]ence, led to difficulties in how the team most appropriately present the analysis to achieve the goal of conforming to the desired principles of *responsible science*".

<sup>&</sup>quot;By the time we committed to a particular research design, we were unsure about the structure, nature and the level of detail of the data we would encounter in future steps. In hindsight, it would have been better to allow for some degree of flexibility in how to execute the paper methodologically. We came across many good ideas as to how we

could improve our identification strategy, but because the research design was already locked-in, we had limited room to adapt".

Indeed, the above quotes indicate a quite understandable general "psychological" obstacle or barrier – due to a strong "anchoring" of research mindsets on the traditional process of doing research and getting published. Notably, this effect (to some extent) flows through in the final written papers of all empirical teams – manifested in a difficulty in **understanding**, **clarifying and executing** the "dividing line" between the registered analysis and any "post hoc" analysis. The requirement to register the research design for qualitative studies can be challenging due to the interpretative and exploratory nature of this type of research. However, the registration based process can still be used if the authors are mindful in explaining the registered analysis and any deviations.

"A potentially more serious issue is that some interviewees took an expansive approach to their reflections on BB68 and explored broad implications by, for instance, commenting upon the current state of accounting research. Consequently, it was sometimes necessary for me to make judgements about where the relevance of these comments to BB68 ended... All of these factors of judgement might be exercised differently by another researcher. I made every effort to be as objective as I could be in these processes and sought to support the judgements I have made by the frequent use of direct quotations as evidence."

The teams were required to present their pitches and research findings at two conferences. During these presentations, teams received additional feedback from the audience and other teams in attendance. This created conflicts for some teams as feedback received at the presentations could be inconsistent with those provided by the reviewers who may or may not be present at the presentations.

"One point of contrast with the traditional research process was some of the feedback we received conflicted with the referee. In general, a paper would normally be workshopped first and then submitted through the review process so this conflict would not arise. However this was only a minor issue". "The structured process produced comments and feedback that proved difficult to reconcile; in particular we became perplexed as to the weight and priority to accord to various sources".

There were also concerns with the time-frame for the projects. This was a major concern for two of the teams that failed to complete their project. One team was unable to meet the substantial commitment to collect and organise the data within the time frame permitted. For the other, the tight time-frame was a significant hurdle as their "ambitious" project involved hand-collected data. A related concern is the suitability of the registered design process to risky projects that might involve data that is not yet accessible or made available.

"Touch points for the research projects were primarily during two conferences. While each conference was helpful in different ways, the conference schedule imposed time constraints on the research projects. Timing of individual research projects is hard to predict, but in the current model, all projects were bound by the same deadlines".

"The only barriers we encountered to the registered design process were circumstance and time. First, a change in circumstance during the project changed our team membership, .... Second, the final deadline imposed by the experiment could not be met due to the size and nature of the hand-collected data to be collated and analysed. Consequently, this project is ongoing. In hindsight, our project was too exploratory for a registered design process, and we were too ambitious in our plans to hand collect and evaluate data..."

"After reviewing the aggregated data, which was adequate for macro-level but not micro-level data analysis, we knew we would be unable to achieve the primary objectives of our proposed research project and hence it was necessary for the research team to withdraw the proposal from the registered design process."

# 5.3 How to improve?

There are a number of suggestions offered by the teams to improve on the process. These suggestions include: improving the reviewing process; varying the timeframes for projects that might be viewed as more ambitious; adjusting the timing of when feedback was provided and allowing some more flexibility.

First, there is a very different style of reviewing demanded by the nature of these manuscripts which is challenging, not only for the authors but also for the reviewers. The required style of reviewing needs a mindset that is very unfamiliar and, thus, disconcerting – most notably, that neither statistical nor economic significance, *per se*, are of any relevance to the process. Hence, the review process could be improved by developing a detailed set of clear instructions, and possibly augmented by some training, on the art of reviewing pre-registered studies.

Second, on the issue of timeframes:

"[a] remedy... would be to have a yearly special issue and yearly conferences where, depending on the stage of the projects and how they have progressed, different projects would be showcased".

"The team would have benefited from more feedback at the earlier stages of the process. One way of achieving this is to better synchronise the second round of presentations with the Phase II proposal. The reviewer should be required to sign off on the proposal after the authors have incorporated comments and suggestions made during the last presentation".

"Redefine Phase 1 as 'research question or hypothesis development', and Phase II as 'model development and data collection', to ensure the feasibility of projects that might involve new models, and/or the collection or creation of original data".

Third, there are suggestions on providing more opportunities for the teams to receive

feedback.

"In contrast to the standard process, where typically a paper is written and developed over many years and via workshops/presentations, the development of the registered paper relies on the comments of one referee. Relatively speaking, we feel that research papers are more likely to benefit from the wisdom of the crowd. Perhaps the sponsoring journal could provide more opportunities for presentation and/or opportunities to receive comments/feedback on the registered papers. We note that our referee provided comments which significantly improved the paper".

"[I]t would be helpful if the editors could stimulate inter-team communication outside of the conferences to gain further synergies across projects".

Finally, others argue for more flexibility in the process and allowing teams to modify

the registered research design.

"Perhaps the whole process could benefit from allowing more flexibility to adapt some aspects of the research design along the way. While the research questions, motivation and contributions of the original Pitch should remain unchanged throughout the project, at times new important relationships may emerge from the modelling exercise, or from the initial interpretation of results. Giving authors more space to adapt, without compromising the core aspects of responsible science, might be a way to improve the registered design process leading to the final version of the paper. This would also benefit the reviewers, as the more they are acquainted with the paper, the better are the suggestions for improvements".

While the above quote is a possible way forward, it also drives home a fundamental misconception:<sup>14</sup> As Nosek and Lakens (2014, p. 138) argue, registered reports "... do not prevent or discourage exploratory analysis" and it "... does not mean that exploratory analysis is not valuable: it is just more tentative". Hence, it is imperative to give more careful guidance to prospective teams, emphasising that the underlying philosophy of the registered-design does indeed allow flexibility. Nevertheless, the heavy onus is on research teams getting the front-end design as good as and as detailed as it can be before any serious analysis takes place. Moreover, the dividing line between the registered analysis and any "post hoc" analysis is both important and empowering, once the researchers truly embrace the concept of "responsible science".

<sup>&</sup>lt;sup>14</sup> A good example of the misconception is the following quote: "If this paper had been undertaken without the registered pitch there is a possibility we would have revised the sample or method".

#### 6 Conclusions

This virtual special issue of the *PBFJ* brings together a group of papers to celebrate the 50-year legacy of Ball and Brown (1968) (BB68). As documented by Clinch, Lyon, and Pinnuck (2019); Fargher and Wee (2019) and Howieson (2019), BB68 has had an extraordinary impact on scholarly research – not only in accounting, but also in finance and capital market studies. Howieson (2019) noted that Ball and Brown's "preoccupation with research excellence" is perhaps the greatest contribution of BB68. It is widely acknowledged that the research conducted in BB68 required significant depth of thought and was conducted with considerable care. A testament of the quality of their research is the replicability of the results. Ball and Brown (2019) show that, 50 years later, the principal findings documented in their original paper consistently replicate across a broader setting, using more recent data and including 16 other countries in the sample.

Besides celebrating the legacy of BB68, this virtual special issue also provides us with the opportunity to add our voice to the call for "responsible science". In this lead article, we report on an experiment where several teams of researchers take up the challenge of conducting their research following a registration-based editorial process. Using the Ball and Brown paper as their inspiration, the researchers develop their research proposals and registered their research design prior to any data collection or empirical analysis. Accordingly, the teams were asked to clearly delineate the analysis conducted following their registered proposal versus any "post hoc" analysis. Overall, the teams involved are in support of the purpose and the use of the registered report process to improve the integrity of research. Nevertheless, several areas of the experiment did not work smoothly and are open to improvement. All teams struggled, to varying degrees, with the requirement to specify the research design upfront. Many team also had difficulties in drawing the "dividing line" between registered and "post hoc" analysis. Despite the challenges with the registration-based editorial process, the many identified positives suggest there is a need to continue experimenting with the registration-based editorial process; hopefully, better informed by the experience gained from our attempt, as documented herein.

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The Economist, 2016, For my next trick... The Economist.

Figure 1: Summary of Ball and Brown (1968)<sup>15</sup>

(A) Full Reference <sup>16</sup>	Ball, R. and Brown, P., (1968), "An Empirical Evaluation of Accounting Income Numbers", <i>Journal of Accounting Research</i> 6, 159-178.
(B) Basic Research Question	Are accounting income numbers useful? If so: useful to whom? And for what purpose?
(C) Key paper(s)	<ul> <li>Fama, E., Fisher, L., Jensen, M. and Roll, R., (1969), "The Adjustment of Stock Prices to New Information", <i>International Economic Review</i> 10, 1-21. [FFJR]</li> <li>Fisher, L., (1966), "Some New Stock Market Indices", <i>Journal of Business</i> 39, 191-225.</li> <li>Miller, M. and Modigliani, F., (1966), "Some Estimates of the Cost of Capital to the Electric Utility Industry, 1954-57", <i>American Economic Review</i> 61, 333-391.</li> </ul>
(D) Motivation/Puzzle	"a priori" research dominated the accounting literature in the mid-1960s. The TWO central "knowns" at the time: (1) existing financial statement information is meaningless; (2) radical changes to financial statement information is needed. But these "knowns" were not based on any objective/"scientific" evidence – such evidence was the big unknown that the field was "crying out for" [though at an individual researcher level, many were not "desperate" for this evidence].
THREE	Three core aspects of any empirical research project i.e. the "IDioTs" guide
(E) Idea?	The broad setting is the stock market and how it reacts to information. The efficient market hypothesis (EMH) is the foundational base for the study – EMH implies that stock prices react very quickly to new firm-relevant information, and in an unbiased fashion. BB68 focused on annual earnings news and pooled observations centred on firm announcements. The observable accounting income numbers allow a reasonably direct test of whether the incumbent financial statement information is meaningless. The basic prediction (hypothesis) is that the "newsworthy" part of accounting income numbers possess material information that is associated with investor decisions, as manifested by observed stock price changes. The prediction was far less about "if" this (earnings news-stock price return) association existed, BUT much more about the strength of the relation.
(F) Data?	(1) Annual earnings numbers covering 1946-1966 from Compustat. (2) Announcement dates from WSJ – taken as the date of preliminary earnings report or of the complete report (where a preliminary is not announced). (3) Stock price relatives obtained from CRSP (monthly, adjusted for dividends and capital changes) – natural log transformed to produce continuously compounded returns. Firm inclusion criteria: complete earnings data; 31 December year end; minimum 100 months of price data; WSJ announcement dates available. Sample effectively restricted to 9 years: 1957-1965. Sample covers $N = 287$ firms. Recognition of a survivorship bias.

<sup>&</sup>lt;sup>15</sup> This worked RE pitch has been heavily informed by Ball and Brown (2014).

<sup>&</sup>lt;sup>16</sup> First version title: "A Theoretical and Empirical Evaluation of Accounting Income Numbers". Second version title: "The Information Value of the Annual Earnings Report".

(G) Tools?	As has now become well-known and widely entrenched, BB68 created an insightful first version of the "event study" design in accounting. Exploiting the calendar time concept developed by FFJR, assessing the incremental reaction to the type of news being released. This required identifying the "newsworthy" component of earnings announcements and that component of the stock price change not attributable to general market movements. It was critical to have a tool that identified the timing of the information and the type of news. The basic approach was to simply apply a binary partition into whether the income number was above (below) expected, designated as "good" ("bad") news.
TWO	Two key questions
(H) What's New?	(1) Research method: introduced the event study method into accounting – giving accounting research its first real taste of "scientific" rigor. (2) Distinguished and disentangled the notions of "information content" versus "information timeliness", when asking the question "are accounting income numbers useful?"
(I) So What?	Before the fact, the study would either confirm the received view (that accounting information) is useless or (as was found) find evidence that such information is useful and thereby seriously challenge this prevailing view.
ONE	One bottom line
(J) Contribution?	BB68 provides evidence that accounting matters because of its informational usefulness, despite its lack of timeliness. By challenging the prevailing view that "accounting income information is useless", the underlying fundamental "paradigm" suggesting alternative accounting schemes was put in "crisis mode" – akin to the concept of a "scientific revolution" (Kuhn 1969, UCP). Put differently, while conducted in the spirit of positive economics, BB68 has distinct normative implications: by rejecting the prevailing view of "what is", it raised a serious "red flag" over the status of linked claims of "what ought to be". As 50 years of history has borne out, this contribution proved utterly seminal in nature, spawning a huge literature with many sub-parts that in several cases created derivative seminal works in the 1970s and 1980s. <sup>17</sup> As such, the full contribution of BB68 can now be gauged by a "multi-generational" evolution of related contemporary studies that all derive their pedigree back to the "grand-father" study of them all, BB68. BB68 opened the door for deep research into how users employ accounting numbers – "investors, analysts, lenders, rating agencies, litigants, and competitors, and its use in compensation, supply, and other contractual contexts" [Ball & Brown, 2014, TAR].
(K) Three Key Findings	(1) Information content of accounting income numbers is considerable. (2) Accounting income numbers per se do NOT deliver very timely information. (3) Documented an anomalous post-earnings announcement drift (PEAD), lasting up to 2 months.

<sup>17</sup> See Fargher and Wee (2019).

# Appendix A: Stage I Registered Pitches for BB68 Special Issue<sup>a</sup> Summary Original Pitch Teams

	Pitch Team Leader	Affiliation	Conference/ Symposium	Working Title
1	David Hillier and Tiago Loncan	U of Strathclyde	IAFDS	Political Uncertainty, Stock Market Performance and Corporate Behaviour
2	Marc Bohman, David Michayluk, Vinay Patel, and Kathleen Walsh	U of Technology Sydney	IAFDS	Liquidity and earnings in event studies: Does data granularity matter?
3	Bryan Howieson	U of Adelaide	AFAANZ	Frankenstein's Monster or the Birth of Venus? Perceptions of the Contribution of Ball and Brown 1968
4	Ellie Chapple & Victoria Clout	Queensland U of Technology, U of NSW	AFAANZ	The High Road or the Low Road? The Information Environment Around Backdoor Listing
5	Henk Berkman, Jonathan Jona, Noami Sunderholm	U of Auckland, U of Melbourne	AFAANZ	Government commitment to combatting climate change and firm value
6	Jianlei Han, Martina Linnenluecke, Zheyao (Terry) Pan and Tom Smith	Macquarie U	AFAANZ	Wealth Effects of Carbon Tax Policy in Australia
7	Hiroyuki Aman, Wendy Beekes, Millicent Chang and Marvin Wee	Kwansei Gakuin U, U of Lancaster, U of Wollongong, Australian National U	AFAANZ	The Properties of Management Forecasts and their Impact on Analysts Forecasts in Japan
8	Sue Wright and Bronwyn McCredie	U of Technology Sydney, Queensland U of Technology	SIRCA	Fight or Flight: CEO human capital during financial distress
9	Allan Hodgson, Stacey Beaumont, Raluca Ratiu and Zhengling Xiong	U of Queensland/IE	IAFDS	Are insiders aware of the winner/loser arbitrage?
10	Nick Mroczkowski, Edward Podolski and George Tanewski	Deakin U	IAFDS	Do Private Firms Engage in Tax Avoidance Activities? An Event Study of Tax Advantage
11	Searat Ali, Muhammad Atif, Sivathaasan Nadarajah	U of Wollongong, Griffith U	AFAANZ	Does Environment, Social and Governance disclosures affect information asymmetry and insolvency risk? Global evidence

<sup>a</sup> While twelve teams initially signed up: three teams failed to deliver an approved Phase I pitch, with one of these electing to remain anonymous.

# A1: Phase I Registered Pitch – Political Uncertainty in Brazil

Pitcher's Name	David Hillier & Tiago LoncanFoR1502Date Completed22/08/2017			
(A) Working Title	Political Uncertainty, Stock Returns and Corporate Behaviour: Evidence from the Brazilian political crisis			
(B) Basic Research Question	The study examines the effects of political uncertainty on asset prices and corporate behaviour, in particular investment and financing structure (capex, cash and leverage)			
(C) Key paper(s)	<ul> <li>(1) Julio, B., &amp; Yook, Y. (2012). Political uncertainty and corporate investment cycles. <i>Journal of Finance</i>, 67(1), 45-83.</li> <li>(2) Pástor, L., &amp; Veronesi, P. (2013). Political uncertainty and risk premia. <i>Journal of Financial Economics</i>, 110(3), 520-545.</li> <li>(3) Liu, Laura Xiaolei, &amp; Shu, Haibing, &amp; Wei, K.C John. (2017). The Impacts of Political Uncertainty on Asset Prices: Evidence from the Bo Scandal in China. <i>Journal of Financial Economics</i>, 125(2),286-310.</li> </ul>			
(D) Motivation/Puzzle	Political uncertainty can shake stock markets, with adverse effects spilling-over particularly in real economic variables, such as investment cycles. However, how political turmoil affects firms at the cross-sectional level remains less clear. In principle, when political uncertainty unfolds, politically connected firms and state-owned firms are most exposed, for their growth options and their very ownership structures can be severely affected by the turmoil's outcome. While the impact of political uncertainty in emerging market settings has had recent high profile attention (e.g. China focus of Liu, et al., 2017), the often magnified controversy and lingering "bad" behaviour gives the ongoing opportunity for nuanced insights, which adds extra appeal for seeking further evidence in such less-developed markets.			
THREE	Three core aspects of any empirical research project i.e. the "IDioTs" guide			
(E) Idea?	In this paper, we study whether political uncertainty produces idiosyncratic effects on politically linked firms, in terms of valuation, investment and financing structure. We study the Brazilian political crisis, which begun by the time of the presidential elections of 2014 and is still unfolding. Brazil is an ideal laboratory for a study of this nature for a number of reasons. First, the government responded to the 2008 financial crisis by increasing subsidies to the private sector, with aggressive handouts via both equity and debt to large and friendly firms, so-called "National Champions" provided by the state-owned bank BNDES. This policy created an interesting treatment group of politically connected firms. For this policy, in a recent article <i>The Financial Times</i> referred to BNDES as a "Lender of first resort to Brazilian tycoons".			
	Second, the country has been facing a period of strong political instability, rooted in the largest corruption probe in the country's history, the "Carwash Task Force", which investigates corruption schemes in the state-owned oil company Petrobras. By the time election race started, a number of high-profile politicians from the incumbent party (Partido dos Trabalhadores) were already jailed on corruption charges (including former state ministers and the party's treasurer). Though the incumbent government had support from the masses, strongly related to income transfer programmes, and from business tycoons, due to subsidy policies, the party was in the spotlight for corruption and wrongdoing as well, what made the outcome of this election particularly uncertain. Clearly, those firms with political capital had much to gain or lose in this race.			

	Political instability was only partially resolved with the election result. Less than two years after the incumbent party secured office, the president was impeached, adding another event of uncertainty to our story. Another major political event occurred in 2017, right after the vice-president replaced the former impeached president. The (new) president was tapped while condoning bribes to silence a key witness in the Car Wash probe, putting in check his mandate. This event ignited an immediate adjustment in the Brazilian stock market, which fell sharply by almost 10%. Recently, the government voted important political reforms (with the labour bill at the epicentre), adding more and more complexity to the political scenario.
	Given the above context, our goal is to run event studies around key political event dates, studying whether stock prices, investment and financing choice decisions from politically connected firms are affected differently to innovations in informational content arising from a resolve or escalation of political uncertainty. We propose the following (tentative) hypotheses. First, when political uncertainty threatens incumbent governments, stock prices of politically connected firms undergo stronger devaluations, because the risk of turnover in government reduces the market value of such political ties. Second, uncertainty marginally reduces the the future value of growth opportunities, for future investments may be contingent upon government support, hitting harder on politically linked firms' investment cycles. Third, akin to a bad business cycle, politically connected firms may turn to more conservative financial policies (accumulating cash and/or deleveraging), to mitigate risk exposure.
(F) Data?	Data for publicly listed firms from Brazil, sourced from Osiris (Bureau Van Dijk). For stock prices we will work with daily data, whilst for financial data we build on quarterly data from financial statements. To build our portfolio of politically connected firms, we use data from BNDES, which tracks the banks' investments in equity and debentures (and corporate donations to the 2014 elections as a potential second identification strategy).
(G) Tools?	In the stock price analysis, we run event studies around key dates, such as the first and second round of the presidential elections in 2014, and the impeachment announcement and in 2015/2016, around political reforms voting in congress. In the corporate behaviour analysis, we use diff-in-diff (D-i-D) analysis. The idea is to study corporate behaviour (investment and financing choices as dependent variables) around financial quarters in which important political events took place, with dummy variables identifying political uncertainty cycles, in particular during presidential elections. The treated group includes politically connected firms, whilst other firms are placed in the control group. Consistent with D-i-D methodology, the interaction term between treated firms and the dummy capturing political uncertainty periods captures idiosyncratic corporate behaviour of politically connected firms during the period of uncertainty. With respect to methodological aspects, two potential problems inherent to event studies deserve comment. The first is Event Date Uncertainty. The potential for event date misspecification arises whenever price data are reported more precisely than information about the event date (Ball and Torous, 1988, JFE). This problem seems to be more relevant when studying corporate events, because some agents may anticipate the outcome (asymmetric information), thus creating a wedge between the announcement of the event and the impact on asset prices. As we study political events, which are announced at the same time for all investor community (like an election outcome), it seems likely that the event announcement date indeed matches with the real event date. The second issue is whether political events overlap with one another, as we study a whole period of continued political instability. We can run robustness checks with shorter event windows to try and separate the effects of each political uncertainty shock.

TWO	Two key questions	
(H) What's New?	The originality of the work is to study the issue of political uncertainty, stock prices and corporate behaviour in a quasi-natural experiment setting, with highly unpredictable outcomes akin to a particularly turbulent political cycle. Moreover, we also innovate by bringing firm characteristics to the analysis, studying the role played by political connectedness in detail.	
(I) So What?	Prior research has shown that political uncertainty creates undesirable effects both for finance and real economic variables, with higher equity premiums demanded by investors, increased volatility and depressed investment. Our study sheds more light on the mechanisms through which political uncertainty kicks in both for asset prices and investment.	
ONE	One bottom line	
(J) Contribution?	We contribute to the political economy of finance debate, in particular by providing a firm-level examination of political uncertainty and its outcomes. Our study has important implications for financial efficiency and capital allocation in an emerging market setting.	
(K) Other Considerations	We acknowledge some risks involved in our research, in particular competition risk – other researchers might be exploring the same identification strategy based on politically-connected firms, as the BNDES data are publicly available.	

A2: Phase I Registered Pitch – Liquidity and Earnings

A2: Phase I Registered Fitch – Liquidity and Earnings			
Pitcher's Name	Marc Bohman, David Michayluk, VinayFoR category1502Date Completed21 May 2017		
	Patel, and Kathleen Walsh		
(A) Working Title	Liquidity and earnings in event studies: Does data granularity matter?		
(B) Basic Research	What are the merits of low versus high frequency liquidity measures in the context of earnings announcement event studies?		
Question			
(C) Key paper(s) Fong, K. Y. L., C. W. Holden, and C. A. Trzcinka (2017). What Are The Best Liquidity Proxies For Global Research			
	Finance, 21, 4, , 1355–14016, This paper compares low frequency and high frequency liquidity measures.		
	Kim, O., & Verrecchia, R. E. (1994). Market liquidity and volume around earnings announcements. Journal of Accounting and		
	<i>Economics</i> , 17, 41-67. This paper posits that there are significant information asymmetries around earnings announcements and this		
	is likely to be higher than in non-announcement periods. More information asymmetries imply higher liquidity costs and the Fong et		
	al paper didn't control for this issue.		
	Ball, R., and P. Brown. (1968). An empirical evaluation of accounting income numbers. Journal of Accounting Research 6 (2): 159-		
	178. This paper provides the underlying event study methodology with linkages to financial accounting information that allows us to		
	test low frequency proxies for high frequency measures during periods of changing information asymmetry.		
(D) Motivation/Puzzle	Data has been increasingly granular and particularly in market microstructure, the availability of very detailed information, sometimes		
	multiple transaction per second recorded in micro or nano-seconds, makes estimation of liquidity variables incredibly precise. These		
	more precise measures come at a large computational cost yet for event studies that examine earnings announcements the increased		
	precision may, or may not, have an influence on the findings in these studies. Current literature is unclear on whether there is any gain		
	to using more precise measures and if computational savings are available for researchers across the multi-faceted nature of very rich		
	data, high dimensional data that is becoming more readily available.		
THREE	Three core aspects of any empirical research project i.e. the "IDioTs" guide		
(E) Idea?	This paper will investigate the trade-off between the precision and computational cost of liquidity estimation using high frequency		
	data versus estimation using low frequency data. It is likely that the computational cost of high frequency data does not translate to		
	efficient estimation precision. However, it is expected that liquidity measured with low frequency data would be adequate under		
	normal market conditions but would be imprecise during periods of stress such as periods of information asymmetry.		
	Our research will determine whether there is any meaningful gain to using more precise measures and will determine if computational		
	savings are available for researchers with large samples, long sample periods, varying information asymmetries or across multiple		
	countries. We will apply a "cost-benefit" logic to our analysis which is essentially a "horse race" measuring the trade-offs between		
	computational cost and measurement precision under varying levels of information asymmetry.		
(F) Data?	We plan to use Australian data over 2006-2017 for 222 companies. We are examining earnings announcements in event studies and		
(1) 2000.	this period has a sufficient length of time and cross-section of results. Data source is TRTH. It is likely that the correlation across		

	liquidity measures is not uniform across size so the sample under investigation needs to include both large and small cap stocks in an active financial market.
(G) Tools?	<ul> <li>We employ a three step analysis to measure the precision of liquidity measures under varying levels of information asymmetry:</li> <li>1. Compute correlations for each window specified (-60 to -11; -5 to -1; announcement day) following Fong, Holden, and Trzcinka (2017),</li> <li>2. Run an event study with a regression framework (Proxy(t0) = Proxy([t-5,t-1]) + Controls). Following Hao (2016, JFE)</li> <li>3. Repeat steps 1 and 2 surprise/non-surprise, good/bad news, Pre-GFC/GFC/Post-GFC periods, and market cap to capture the effects of varying levels of information asymmetry.</li> </ul>
	We will also stress test the analysis along a few dimensions like bull/bear markets, high low interest rates and will undertake robustness checks to investigate the impact of momentum in liquidity as suggested by <u>Sadka (2015, JFM)</u> .
	To isolate the impact of information asymmetry we employ a standard deviation-based rolling approach to divide earnings into surprises and non-surprises, as well as good and bad news depending on the announcement day stock price reaction. In this way we can distinguish between degrees of earnings anticipation and study the different liquidity measurements around information asymmetry appropriately.
	The liquidity measures can broadly be split into two groups: i) percent-cost measures which capture transaction costs, and ii) cost- per-dollar measures which capture the marginal transaction costs per unit of dollar volume. We compare the correlation between low- and high-frequency liquidity measures in an event study framework around Australian earnings announcements. At the daily level for the percent-cost measures, we compare the performance of two low-frequency measures: high-low (Corwin and Schultz, 2012, JF) and closing percent quoted spread (Chung and Zhang, 2014, JFM) to four high-frequency benchmarks: quoted spreads, effective spreads, relative spreads and price impact. In addition, for the cost-per-dollar measures, we compare four low-frequency measures: Amihud (2002), Amivest, high-low impact, and closing percent quoted spread impact (Goyenko et al., 2009, JFE) to one high- frequency benchmark: lambda (Hasbrouck, 2009, JF). It is important to note that we are not investigating whether the measures of liquidity are consistent or even accurate only whether the low frequency measures behave differently in periods of high information asymmetry.
TWO	Two key questions
(H) What's New?	The availability of high frequency data and reducing computational cost has seen a proliferation of high frequency liquidity measures in the literature. There is some evidence that low frequency measures are adequate however it is unclear whether this finding is robust to periods of high information asymmetry. This paper analyses the trade-off between cost and measurement precision under varying levels of information.

(I) So What?	It has now become essential for trading firms to host their key trading technology as close as possible to the stock exchange engines in order to remain competitive and this is just to save a nano-second of computing time. Therefore saving on computational efficiency of liquidity measures is likely to translate to real cost savings for trading strategies. In addition, the use of low frequency proxies for high frequency measures will allow investigation of markets where high frequency data are not available.
ONE	One bottom line
(J) Contribution?	This paper shows the trade-off between data frequency, computational efficiency and liquidity precision. Fong et al (2017) find that
	low frequency measures can proxy for high but this finding may or may not be generalizable. In particular Fong et al (2017) did not
	consider periods of high information asymmetry where data granularity may be advantageous. This project stress tests and validates
	the Fong et al (2017) analysis under varying information asymmetry periods.
(K) Other Considerations	Risk assessment is relatively low as data have already been sourced and it will be an interesting story regardless of the results.

Pitcher's Name	Bryan HowiesonFoR categoryAccounting HistoryDate Completed10/07/2017		
(A) Working Title	Frankenstein's Monster or the Birth of Venus? Perceptions of the Contributions of Ball and Brown 1968		
(B) Basic Research	What are the perceived contributions of B&B 1968 to accounting theory, research and practice?		
Question			
(C) Key paper(s)	R. Ball & P. Brown, 2014, "Ball and Brown (1968): A Retrospective", <i>The Accounting Review</i> , 89(1), pp. 1–26.		
	P. Brown, 2013, "Introduction", in P. Brown, Financial Accounting and Equity Markets: The Selected Essays of Philp Brown, New		
	York: Routledge, pp. $1 - 23$ .		
	P. Brown, 1989, "Invited Remarks: Ball and Brown [1968]", Journal of Accounting Research, 27, Supplement, pp. 202 – 217.		
(D) Motivation/Puzzle	The motivation is to use the celebration of the 50 <sup>th</sup> anniversary of B&B 1968 to document the nature and extent of the contribution of		
	that paper beyond the self-reported reflections of its authors. B&B 1968 is well recognised among accounting researchers of capital		
	markets but its impact upon accounting practice and its more general influence on accounting thought are not well documented.		
THREE	Three core aspects of any empirical research project i.e. the "IDioTs" guide		
(E) Idea?	To extend PB and RB's retrospective papers beyond their own perceptions to explore those of other scholars (both adherents and non-		
	adherents) and standard-setters/practitioners. B&B 1968 represents a sea change in accounting research relative to the so-called a		
	priori research that preceded it, but it would be valuable to know more about the perceived boundaries of this methodology, to explore		
	whether it has reached its limits, and to what extent, if any, it has impacted upon the practice of accounting. For example, this study		
	might discover that the methodology introduced largely by B&B 1968 to accounting research has inadvertently incentivised other		
	researchers to adopt alternate methodologies as a reactionary response to what they perceived as threats from, or limitations of, the		
	B&B 1968 methodology. This idea is reflected in the working title of the paper.		
(F) Data?	(1) What data do you propose to use? Data will be the content of transcripts from which 'themes' are generated about the perceptions		
	of 'informed' accounting scholars and practitioners.		
	(2) What sample size do you expect? The key objective is to get sufficient breadth of perspectives across scholars, standard-setters		
	and practitioners, not only in Australia but also internationally. An important sign of a sufficient sample would be the presence of		
	theme saturation, i.e., a point at which interviews no longer generate 'new' themes. It is not possible to say <i>ex ante</i> how many		
	interviews this might take but realistically I would anticipate conducting between 20 to 30 interviews.		
	(3) Data Sources? A purposive sampling approach will be adopted to identify potential interviewees. Interviewees are to be identified based on (a) whether they are likely to be informed enough shout $P \& P = 106\%$ (a.g., do they have a sufficient familiarity with the		
	based on (a) whether they are likely to be informed enough about B&B 1968 (e.g., do they have a sufficient familiarity with the accounting literature?; were they participants in the relevant debates?) and (b) could they in principle have been impacted by B&B		
	1968 (e.g., a standard-setter who could be informed by the findings of event study based research)? Interviewees will be asked to		
	suggest other potential interviewees (with an explanation as to why they believe they would be appropriate). The initial strategy for		
	identifying interviewees is to start with two who are 'historically' informed – Steve Zeff and Graeme Dean. Starting with a historical		
	context will assist in ensuring a broad approach is taken to identifying interviewees and an added bonus is that both Zeff and Dean		
	are very well-connected in terms of their understanding of who would be key players in the B&B1968 story.		
<u> </u>	are very wen-connected in terms of their understanding of who would be key players in the D&D1708 story.		

A3: Phase I Registered Pitch - Frankenstein's Monster or the Birth of Venus?

	<ul> <li>(4) Will there be any problem with missing data/observations? Key themes could remain unidentified if there is an insufficient breadth to the range of interviewees or ineffective interviewing technique.</li> <li>(5) Will your "test" variables exhibit adequate ("meaningful") variation to give good power? Quality/reliability of data? Ensuring a breadth of both 'adherents' and 'non-adherents' to the B&amp;B 1968 methodology (as well as a balance between academic and non-academic interviewees) should assist in providing sufficient variation in the data. Interviewees will be given the opportunity to review the transcripts of their interviews for verification and elaboration where necessary.</li> <li>(6) Other data obstacles? The primary data obstacle is likely to be gaining access to relevant interviewees. This is discussed further below in risks as part of "Other Considerations".</li> </ul>
(G) Tools?	A qualitative approach is to be adopted employing semi-structured interviews. Interviews will be conducted face-to-face, by telephone, or by Skype. Thematic analysis of the interviews will be undertaken with the assistance of the NVivo software tool. Although the objective is to have the data drive the identification of themes, the analysis of the data may be informed by a theoretical structure grounded in an understanding of the diffusion of innovations.
TWO	Two key questions
(H) What's New?	The novelty is primarily in extending our understanding of the contribution of B&B 1968 beyond that of its impact upon the field of capital markets research. Interviewing a breadth of parties is likely to reveal unexpected ways in which B&B 1968 has impacted on accounting research and practice.
(I) So What?	The objective of the special issue of the <i>Pacific Basin Finance Journal</i> is to celebrate the considerable significance of B&B 1968. Our understanding of the quantum of the nature and breadth of this contribution will be truncated if it is understood only within the relatively narrow confines of capital markets/quantitative academic research.
ONE	One bottom line
(J) Contribution?	The primary evidence of the impact of B&B 1968 are the self-reported reflections published by B&B. This study would supplement that evidence by providing the perceptions of other, arguably 'independent', parties who include potential non-adherents of the B&B 1968 methodology and the context of accounting practice which has not been addressed in the B&B reflective papers.
(K) Other Considerations	<ul> <li>Target Journal: The proposal has been generated for a special issue of the <i>Pacific Basin Finance Journal</i>.</li> <li>"Risk" assessment: As noted above, a serious risk is being unable to access interviewees (this is anticipated to be a particular problem with the 'non-supporters' who may feel their views are in some way irrelevant). I am hoping to manage this risk in part by leveraging off 'friendly' colleagues who can vouch for the importance of interviewee participation.</li> <li>Ethics clearance will be required. It is not anticipated that this will be a significant hurdle and it is proposed to identify in any published paper who the interviewees were but not link their names to any specific quotations.</li> <li>Other risks include: (a) obtaining funds to pay for the transcription of interviews (this is anticipated to be somewhere between \$3,000 and \$4,000 depending upon the number and length of interviews); (b) failure of digital recording equipment, (c) given 2018 is a 'celebratory' year for the B&amp;B 1968 paper, there is a possibility that some other researcher may also review the contribution of B&amp;B. Size of team: Sue Wright has agreed to act as a 'sounding board' throughout the project.</li> </ul>

Is the <b>scope</b> appropriate? The scope is acknowledged to be broad at this initial stage but this reflects the exploratory nature of the research question. The scope will become more focussed with feedback from project reviewer and after the preliminary analysis of
the interviews.

### A4: Phase I Registered Pitch – Backdoor Market Listings

Pitcher's Name	Larelle (Ellie) Chapple (QUT Business FoR category1501 & 1502Date Completed6/6/2017				
Thener STraine	School) and Victoria Clout (UNSW) For early 1997 er 1992 For er 1992 Revised 22/09/2017				
	Business School)				
(A) Working Title	The high road or the low road? The information environment around backdoor market listing: A Pitch				
(B) Basic Research	Are post-earnings announcement drifts different for reverse merger (or so called backdoor listing) compared to a conventional Initial				
Question	Public Offering (IPO) listing?				
(C) Key paper(s)	Francis, Lafond, Olsson and Schipper (2007) Information uncertainty and Post-Earnings-Announcement-Drift, Journal of Business				
	Finance and Accounting, 34: 403-433.				
	Bernard and Thomas (1990) Evidence that stock prices do not fully reflect the implications of current earnings for future earnings,				
	Journal of Accounting and Economics, 13: 305-340.				
	Lam and Chan (2016) Long-run performance of backdoor-listed firms, JASSA, 2: 6-17.				
(D) Motivation/Puzzle	Backdoor listings are essentially cases of unregulated "reverse" takeover involving a listed "shell" company, which allow a non-listed				
	counterpart an expedient means to achieve share market listing. The Australian market regulator, Australian Investments and				
	Securities Commission (ASIC) has an aversion to backdoor listings – the perception is that such listings provide a pathway for firms				
	that desire less scrutiny compared to firms that chose an IPO. As such, these listings might result in a poorer information environment				
	for investor decision-making. There is a lack of evidence testing such a view, which motivates the current proposal.				
THREE	Three core aspects of any empirical research project i.e. the "IDioTs" guide				
(E) Idea?	Prior research persists in its failure to explain the existence of post-earnings announcement drift (PEAD). We seek to investigate				
	whether there is a difference in post-earnings announcement drift between firms where the amount and quality of publically available				
	information about a firm is low, i.e. backdoor listed firms, and compare them to IPO listed firms, where we expect the information				
	environment is superior (due, inter alia, to the prevailing IPO regulation). If investors become overconfident, drift occurs as investors				
	weight more highly their private information over public information such as earnings announcements. Through the agency of				
	comparing back door vs IPOs, we investigate whether under-confidence through limited public information has a negative effect on PEAD in reverse takeovers. Prior research suggests that the data used and the type of research design will yield significant results.				
(F) Data?	Australian data – 400 back-door listed firms during the period 2001 to 2016, matched by size and industry with 800 IPO listed firms.				
(I') Data:	Earnings announcement event study. We will obtain the share price and corporate governance data from SIRCA AusEquities and				
	Corporate Governance database. The method of listing, backdoor or IPO, will be hand-collected from media releases, newspaper				
	articles and SIRCA's Australian Company Announcement database. Interviews will be conducted with high value stakeholder to				
	inform the research design. Research funding associated with qualitative research interviews, travel, transcription and data collection				
	and analysis required will be sought.				
(G) Tools?	We will use the following model, used extensively in prior literature, where we have added an indicator variable for backdoor listing:				

	$CAR_{zj} = \alpha_0 + \alpha_1 UE_{ij} + \alpha_2 BKD + \alpha_3 BKD * UE_{zj} + \alpha_4 EQ_{i-1j} + \alpha_5 EQ_{i-1j} * UE_{zj} + \alpha_6 SIZE_{zj} + \alpha_7 SIZE_{zj} * UE_{zj} + \alpha_8 CG_j$
	$+\varepsilon_{zi}$
	where $CAR_{zj}$ is the cumulative abnormal return estimated for a 60-day window after the annual earnings announcement z for firm j,
	and $UE_{zj}$ is a measure of the unexpected earnings using analyst forecasts of the z earnings announcement for firm j, BKD is an
	indicator variable which takes a value of one if a firm was backdoor listed and zero otherwise, $EQ_{i-1j}$ is a measure of the earnings
	quality of firm j in period i-1, $SIZE_{zj}$ is measured as the market value of equity on the 45 <sup>th</sup> day prior to the earnings announcement
	for year z; $CG_j$ is a vector of corporate governance measures as suggested in prior literature for firm j. We use established measures
	of earnings quality.
TWO	Two key questions
(H) What's New?	In the spirit of Ball and Brown (1968) we seek to investigate a contemporary accounting information issue and its association with
	asset prices. See Figure 1.
(I) So What?	Providing evidence to ASIC, given ASIC's assertions that backdoor listing firms have weaker corporate governance and whether the
	market information releases provided by these firms are less useful to market participants compared to those issued by IPO listed
	firms. Evidence from this study will help either affirm the ASIC view or give it food for thought to moderate or even change its stance
	on back door listings.
ONE	One bottom line
ONE (J) Contribution?	One bottom line           To date there has been scant examinations of post-earnings announcement drift in Australia, even though according to anecdotal
	One bottom line To date there has been scant examinations of post-earnings announcement drift in Australia, even though according to anecdotal evidence from the finance industry drift does exist in Australia. Little is also known about how corporate governance interacts with
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(J) Contribution?	One bottom line To date there has been scant examinations of post-earnings announcement drift in Australia, even though according to anecdotal evidence from the finance industry drift does exist in Australia. Little is also known about how corporate governance interacts with PEAD. The CEOs of BKD firms, similar to securities class action firms, have a high incidence of dominate CEOs. As per prior research these dominate CEOs tend to influence the nomination committee and surround themselves with directors of their choice thus potentially influencing the corporate disclosure quality. The research team assembled has the appropriate skills and prior expertise in the areas of capital markets research and a prior track record of papers investigating into regulatory and corporate governance issues. There is a potential that some of backdoor listed firm sample will have zero analyst coverage throughout the sample period and these firms would be removed from the sample as we would not be able to calculate unexpected earnings (UE).
(J) Contribution?	One bottom line         To date there has been scant examinations of post-earnings announcement drift in Australia, even though according to anecdotal evidence from the finance industry drift does exist in Australia. Little is also known about how corporate governance interacts with PEAD. The CEOs of BKD firms, similar to securities class action firms, have a high incidence of dominate CEOs. As per prior research these dominate CEOs tend to influence the nomination committee and surround themselves with directors of their choice thus potentially influencing the corporate disclosure quality.         The research team assembled has the appropriate skills and prior expertise in the areas of capital markets research and a prior track record of papers investigating into regulatory and corporate governance issues. There is a potential that some of backdoor listed firm sample will have zero analyst coverage throughout the sample period and these firms would be removed from the sample as we would not be able to calculate unexpected earnings (UE).         Target Journal(s)? Pacific-Basin Finance Journal Special Issue
(J) Contribution?	One bottom lineTo date there has been scant examinations of post-earnings announcement drift in Australia, even though according to anecdotal evidence from the finance industry drift does exist in Australia. Little is also known about how corporate governance interacts with PEAD. The CEOs of BKD firms, similar to securities class action firms, have a high incidence of dominate CEOs. As per prior research these dominate CEOs tend to influence the nomination committee and surround themselves with directors of their choice thus potentially influencing the corporate disclosure quality.The research team assembled has the appropriate skills and prior expertise in the areas of capital markets research and a prior track record of papers investigating into regulatory and corporate governance issues. There is a potential that some of backdoor listed firm sample will have zero analyst coverage throughout the sample period and these firms would be removed from the sample as we would not be able to calculate unexpected earnings (UE).Target Journal(s)? Pacific-Basin Finance Journal Special Issue Conferences: AFAANZ 2017 Adelaide Behavioural Finance SIG pitch paper presentation and AFAANZ 2018 Conference Auckland
(J) Contribution?	One bottom lineTo date there has been scant examinations of post-earnings announcement drift in Australia, even though according to anecdotal evidence from the finance industry drift does exist in Australia. Little is also known about how corporate governance interacts with PEAD. The CEOs of BKD firms, similar to securities class action firms, have a high incidence of dominate CEOs. As per prior research these dominate CEOs tend to influence the nomination committee and surround themselves with directors of their choice thus potentially influencing the corporate disclosure quality.The research team assembled has the appropriate skills and prior expertise in the areas of capital markets research and a prior track record of papers investigating into regulatory and corporate governance issues. There is a potential that some of backdoor listed firm sample will have zero analyst coverage throughout the sample period and these firms would be removed from the sample as we would not be able to calculate unexpected earnings (UE).Target Journal(s)? Pacific-Basin Finance Journal Special Issue Conferences: AFAANZ 2017 Adelaide Behavioural Finance SIG pitch paper presentation and AFAANZ 2018 Conference Auckland full paper presentation.
(J) Contribution?	One bottom lineTo date there has been scant examinations of post-earnings announcement drift in Australia, even though according to anecdotal evidence from the finance industry drift does exist in Australia. Little is also known about how corporate governance interacts with PEAD. The CEOs of BKD firms, similar to securities class action firms, have a high incidence of dominate CEOs. As per prior research these dominate CEOs tend to influence the nomination committee and surround themselves with directors of their choice thus potentially influencing the corporate disclosure quality.The research team assembled has the appropriate skills and prior expertise in the areas of capital markets research and a prior track record of papers investigating into regulatory and corporate governance issues. There is a potential that some of backdoor listed firm sample will have zero analyst coverage throughout the sample period and these firms would be removed from the sample as we would not be able to calculate unexpected earnings (UE).Target Journal(s)? Pacific-Basin Finance Journal Special Issue Conferences: AFAANZ 2017 Adelaide Behavioural Finance SIG pitch paper presentation and AFAANZ 2018 Conference Auckland full paper presentation. The qualitative interview component would require an ethics clearance process. There is a medium risk of competitors in the area
(J) Contribution?	One bottom lineTo date there has been scant examinations of post-earnings announcement drift in Australia, even though according to anecdotal evidence from the finance industry drift does exist in Australia. Little is also known about how corporate governance interacts with PEAD. The CEOs of BKD firms, similar to securities class action firms, have a high incidence of dominate CEOs. As per prior research these dominate CEOs tend to influence the nomination committee and surround themselves with directors of their choice thus potentially influencing the corporate disclosure quality.The research team assembled has the appropriate skills and prior expertise in the areas of capital markets research and a prior track record of papers investigating into regulatory and corporate governance issues. There is a potential that some of backdoor listed firm sample will have zero analyst coverage throughout the sample period and these firms would be removed from the sample as we would not be able to calculate unexpected earnings (UE).Target Journal(s)? Pacific-Basin Finance Journal Special Issue Conferences: AFAANZ 2017 Adelaide Behavioural Finance SIG pitch paper presentation and AFAANZ 2018 Conference Auckland full paper presentation.

## A5: Phase I Registered Pitch – Climate Change

Pitcher's Name	Henk Berkman, Jonathan Jona and Naomi		Capital Markets	Date Completed	18 July 2017		
	Soderstrom		1	1	5		
(A) Working Title	Winds of change: Market response to change in government commitment to combatting climate change						
(B) Basic Research	Does firm-level climate risk temper the association between government commitment to combatting climate change and stock price?						
Question							
(C) Key paper(s)	Berkman, H., Jona, J., Lim, K., and N. Soderstrom. (2017). Do Market Valuations Incorporate Climate Risk? Available at SSRN:						
	https://ssrn.com/abstract=2775552						
	Berkman, H., Cole, R., and L. Fu. (2010). I		2		dence from Securities-		
	Market Regulation in China. The Journal of F						
	Ferguson, A., and P. Lam. (2016). Government	nt policy uncerta	ainty and stock prices: T	The case of Australia's ura	anium industry. Energy		
	<i>Economics</i> 60: 97-111.						
	Li, C., Luo, J., and N. Soderstrom. (2017). M	arket Response	to Regulatory Costs Rel	lated to Haze. Journal of	Accounting and Public		
	<i>Policy</i> . 36(3): 201-219.		(' D1' D1'I				
	Noreen, E., and J. Sepe. (1981). Market F	Reactions to Ac	counting Policy Delib	erations: The Inflation	Accounting Case. The		
(D) Matingtian / Durrela	Accounting Review, 56(2), 253-269. Climate change and carbon emissions were "						
(D) Motivation/Puzzle	U.S., with institutional investor assets reachin						
	back environmental policies run counter to gr	Ç		/ /	1		
	Trump's approach is dramatically different fi	U U			Ũ		
	Our project exploits this variation in approach						
	climate change.	te intestigate in	e importance to sharence				
	A tension in our analysis arises because there	are state and lo	cal level governmental	commitments to combatt	ing climate change that		
	may circumvent any Federal regulations. For						
	the 2016 Paris agreement on Climate Change (The LA Times, June 2 2017).						
THREE							
(E) Idea?	We propose to use event-study methodology		e		ē 0		
	has an impact on the value of firms and whet						
	shocks (events): the Paris agreement, the surp				ge denier as minister of		
	energy, the announcement of budget cuts for the EPA, and others to investigate these issues.						
	To isolate the effect of government commitment we include non-US firms in the sample who are listed in the US but would not be						
	directly subject to US climate change policy implementation.						

(F) Data?	<ul> <li>(1) Setting: we focus US listed firms (domestic and foreign). We propose to form 4 portfolios based upon climate risk and expected impact of US government commitment to climate change: (a) High climate risk US firms; (b) Low climate risk US firms, (c) High climate risk non-US firms; and (d) Low climate risk non-US firms.</li> <li>(2) All US firms are in the Russell 3000. The non-US firms are large non-US companies that have a US listing. Our study covers 2 fiscal years (2015-2016) with an estimated sample size of about 5,000 firm-year observations.</li> <li>(3) We use a calendar time portfolio strategy (time series) to study a cross-sectional contrast (i.e. high vs. low level of climate risk).</li> <li>(4) Data Sources? We use a publicly available measure of firm-specific exposure to climate risk based on 10-K disclosures for the climate risk measure. We use the standard financial data from Compustat and CRSP</li> <li>(5) The data are relatively clean, publically available and should allow for a powerful test in line with related studies.</li> <li>(6) Potential weakness in our sample: non-US firms listed in US might be active in US and 'benefit' in the same way from lax environmental policies as US firms. This can potentially be address by examining country of origin and amount US operations for the non-US firms.</li> </ul>
(G) Tools?	We estimate time series models where the dependent variable is the return on a hedge portfolio that is long (say) US high climate risk firms and short (say) US low climate risk firms. The return on the hedge portfolio is a function of typical factors (market, size, value, momentum). Our interest is in event-dummies that are 1 on the event days. We expect this dummy to be positive on the day of Trump's election and on the day the EPA cuts were announced. We have similar predictions for the long-short portfolio after subtracting the return of a control hedge portfolio (non-US high climate risk firms – non-US low climate risk firms). We will consider other dimensions to form long-short portfolios, e.g. polluters vs. non-polluters, and firms with high vs low carbon emissions (as identified by Heede 2014).
	Our data allow us to focus on different 3 specific types of climate change risk: (1) Physical, (2) Regulatory and (3) Renewable Fuels and Technology. We expect to find stronger effects for companies with higher regulatory risk followed by firms with higher renewable fuels and technology risk because these risk are most directly related to likely actions following the Paris agreement.
	We choose this method because with clustered events (i.e. events that affect all sample firms at the same time), there is a severe problem of cross correlation of the error terms. Models such as GLM are unable to correct for the resulting bias in t-statistics. With a large sample such as ours, it will only take a small cross correlation to cause extreme distortions in the t-statistics (Mitchell and Stafford, 2000).
	In addition to standardizing our measures by industry, we will run models within specific industries (e.g., high climate risk and low climate risk firms within a single industry).
TWO	

(H) What's New?	Our fundamental question of how the market views government signals about intended policy, particularly in the context of climate change, has not been explored before. Further, we employ a unique firm-level measure of climate risk which allows us to exploit expected cross sectional variation in the market's response.
(I) So What?	Climate change is a world-wide problem and has been the focus of international agreements and government policies. While business impacts contribute to climate change they also are the engine that drives economies to produce resources that could be used to combat climate change. Government policy is at the interface between business and climate change and therefore understanding the how governmental approaches to climate change policies affect capital markets is extremely important.
ONE	
(J) Contribution?	We are implementing a novel firm-level climate risk measure into the finance literature. We are also linking business to politics and the policy environment in a new way.
(K) Other Considerations	- Target journal PBFJ
	<ul> <li>We have a diverse group of authors with expertise in financial accounting, finance and sustainability research.</li> <li>We view the risk to success for this project to be low because results will be interesting irrespective of the outcome.</li> </ul>

A6: Phase I Registered Pitch – Carbon Tax Policy

Pitcher's Name	Han Pan Linnenluecke Smith     FoR category     1502     Date Completed     May 2017       Updated J						
(A) Working Title	Wealth Effects of Carbon Tax Policy in Australia	July 2017					
(B) Basic Research	Examine the announcement of the carbon tax in Australia, separating out the news effects and valuation effects.						
Question	Examine the announcement of the carbon tax in Australia, separating out the news effects and valuation effects.						
(C) Key paper(s)	Ball, R., & Brown, P. (1968). An empirical evaluation of accounting income numbers. <i>Journal of Accounting Research</i> , 159-178.						
(c) Key paper(s)	Barraclough, K., Robinson, D. T., Smith, T., & Whaley, R. E. (2013). Using option prices to infer overpayments and synergies in						
	M&A transactions. Review of Financial Studies, 26(3), 695-722.						
(D) Motivation/Puzzle	There is an identification problem when announcements have unresolved uncertainty. In this situation the Ball and Br	rown (1968)					
	methodology cannot be applied because the price on announcement contains an outcome probability parameter as well						
	price parameters. We propose an approach that can be used to analyse announcements which contain unresolved unce						
	approach uncovers the probability and outcome parameters and enables the price change on announcement to be split into a	•					
	and valuation effects. We apply this approach to the announcement of the introduction of a carbon tax in Australia. The n	news effects					
	of Australia taking a strong stance on climate change is important both economically for markets and politically for po	olicy makers					
	who are interested in making the economy robust to threats likely to be present in the coming decades. The valuation ex						
	proposed carbon tax are of crucial importance for firms and shareholders as they affect long run profitability and viability	у.					
THREE	Three core aspects of any empirical research project i.e. the "IDioTs" guide						
(E) Idea?	Announcements that have unresolved uncertainty mean that there is an identification problem when the Ball and Brown (	< / /					
	study methodology is applied. This is because the price change contains information on the outcome probability as well as						
	price parameters. The price on announcement can be written as $P = p P^{S} + (1-p)P^{F}$ , where p is the probability of a success						
	and PS is the price if the outcome is a success and $P^F$ is the price if the outcome is a fail. Thus we see the identification						
	we have one price and three parameters. It is possible to complete the equation set by using options on the announcement introduces further parameters in the form of the volatility for the success and fail outcomes. In total there are 5 parameters						
	and therefore at least four option prices are needed to identify the equation system.	s to estimate					
(F) Data?	We propose to use stock and option prices on stocks that were subject to the carbon tax. These prices will be collected a	is at the date					
(1) Data:	of the announcement.	s at the date					
	All stocks that were affected by the carbon tax. However not all these firms will have traded options so that will reduce	e the sample					
	size.	1 -					
	No, it is a cross-sectional study at the date of the announcement.	No, it is a cross-sectional study at the date of the announcement.					
	The data are readily available from commercial sources such as Datastream and Bloomberg.						

	There are a lot of tricks for young players in dealing with option data but we have an experience research team that is skilled in these issues. The tricks include taking the raw data and getting it usable form taking into account, time to experiation, exercise price, volume and bid/ask vs transaction prices.
	Yes, we will have a substantial cross section of firms across various industry groups. Options are written on large firms with high share volume and include both carbon intensive firms and non-carbon intensive firs so that will enhance the variation across firms.
	The main obstacle is whether firms have options written on them and whether there are sufficient option series for the purposes of identification.
(G) Tools?	The research will require the estimation of five parameters from five or more stock and option equations. This is a standard numerical procedure and the researchers will provide the R code as part of the appendix of the paper.
TWO	Two key questions
(H) What's New?	What's new is the solving of the identification problem of announcements that involve unresolved uncertainty. The estimation of the probability and outcome price parameters means that researchers will be able to separate wealth and news effects of announcements.
(I) So What?	Announcement studies that have been conducted when there is outcome uncertainty have confounded news effects and valuation effects. They have taken the price change on announcement as the wealth effect but this ignores the fact that the announcement price is a weighted probability of event success and outcomes. Barraclough et al. (2013) demonstrate that the traditional approach understates bidder gain effects in the takeover situation and that correctly identifying the underlying probability and outcome parameters reveals that the bidder and target share the wealth effects of takeovers equally. Being able to disentangle the news effect of the Australian Government taking a strong stance on climate change and the valuation effects of the specific proposed carbon tax provide insight to policy makers and investors alike.
ONE	One bottom line
(J) Contribution?	We provide a template for conducting an announcement study when their announcement involves unresolved uncertainty. We will also compare our methodology with an intervening events methodology that has been discussed in the literature. The intervening event methodology does not allow the researcher to infer news and value effects on announcement but rather requires further intervening events (eg news reports about likely voting patterns in parliament) to provide further price observations and thus allow the calculation of the unknown parameters. Since there are 3 unknown parameters, there would need to be 3 intervening events.
(K) Other Considerations	We intend to collaborate with researchers from University of Tasmania and University of Otago as they bring significant programming skills. Our aim is to publish in the prestigious Pacific Basin Finance Journal Risk of being beaten by a competitor or of obsolescence is low. No serious challenges that cannot be handled by the research team. The approach is very general but the application of the approach to the Australian Carbon Tax announcement is very focused.

	Chang and Marvin Wee	1 on category	1501/1502	Date Completed	27 July 2017		
(A) Working Title	The properties of management forecasts and their relationship with analyst forecasts in Japan						
(B) Basic Research Quest	Does the information environment influence the inter-relationship between management forecasts and analyst forecasts?						
(C) Key paper(s)	AGUILERA, R. V.; K. A. DESENDER; M. LP. LAMY and J. H. LEE. "The governance impact of a changing investor landscape."						
	Journal of International Business Studies 48 (2017): 195-221.						
	OTA, K. "The Value Relevance of Manageme	ent Forecasts and	l Their Impact on Analys	sts' Forecasts: Empirical	Evidence From Japan."		
	<i>Abacus</i> <b>46</b> (2010): 28-59.						
	KATO, K.; D. J. SKINNER and M. KUNIN			an: An Empirical Study	v of Forecasts that Are		
	Effectively Mandated." The Accounting Revie						
(D) Motivation/Puzzle	Management forecasts of earnings are essent						
	management and analyst forecasts in listed c						
	formulate their own forecasts. However in ca						
	likely to place less reliance on management managers' credibility based upon the accurac						
	managers are unconcerned about reputational						
	optimistic in their initial forecasts. There may						
	the culture of lifetime employment and the existence of complex cross-shareholding relationships within corporate groupings which may facilitate the transfer of information within the group. However, with increasing levels of foreign ownership in recent times, the						
	need for transparent disclosures and more accurate forecasts is likely to be more important in Japanese firms. If managers are unable						
	to forecast earnings accurately, and analysts are found to have more precise forecasts, we consider that it is possible that managers						
	may use analysts' prior earnings forecasts to in	nform their own	current period earnings f	orecast. The study will in	nvestigate the influence		
	of corporate governance and transparency in Japan on the inter-relationship between management and analyst forecasts.						
THREE	Three core aspects of any empirical research project i.e. the "IDioTs" guide						
(E) Idea?	Our study examines whether the credibility of						
	earnings forecasts. While analysts seek to upd						
	to management forecasts depends on analysts' ability to evaluate the credibility of management forecasts. Similarly, managers' use						
	of the information available in analyst foreca	*	÷ 1				
	prior forecasting ability and their knowledge						
	analyst forecasts is expected to be a function of			•			
	corporate governance structures, forecast differences of the forecast credibility can be affected by the num						
	• •	•	•				
	(in terms of accuracy and bias). We hypothesise that analysts' adjustments or responses to any management forecast news are conditioned on the credibility of the management disclosure (H1). This extends the work by Ball and Brown (1968), by examining						
L	conditioned on the electionity of the management disclosure (11). This extends the work by Dan and Diowii (1906), by examining						

# A7: Phase I Registered Pitch – Management Earnings ForecastsPitcher's NameHiroyuki Aman, Wendy Beekes, MillicentFoR category1501/1502

Pitcher's Name

Date Completed

27 July 2017

(H) What's New?	The novelty is using SEM to study the bi-directional relationship between MFs and AFs. Also, the potential influence that CG on the inter-relationship between MF and AF.
TWO	Two key questions
	We will use structural equation modelling (SEM) to analyse the data. In addition, panel regressions analysis (clustered standard errors by firm-month are necessary as it is the same firm being sampled) will be included.
	Transparency, Control variables)
	<ul> <li>Properties of management forecast (Bias, Accuracy, Disagreement) = f(Management forecast error, CG, Analyst following,</li> </ul>
	<ul> <li>Analyst forecasts revision = f(Management forecast revision, CG, Transparency, Control variables)</li> <li>Properties of management forecast (Bias, Accuracy) = f(CG, Analyst following, Transparency, Control variables)</li> </ul>
(G) Tools?	<ul> <li>The following lists the regressions models we will consider:</li> <li>Analyst forecasts revision = f(Management forecast revision, CG, Transparency, Control variables)</li> </ul>
(C) T <sub>2</sub> -1-9	Analyst coverage in Japan may be smaller than that in US/UK/AU. However, the benefit of using a Japanese dataset is that a large number (if not all) of firms in Japan release management forecasts.
	Based upon Kato et al.'s sample about 90% of sample firms issue management forecasts (See, Kato et al 2009, p.1582). For analyst forecasts, Aman-Beekes-Brown's working paper use I/B/E/S from WRDS and find no problem for the Japanese data. Absolute numbers for income are forecasted rather than Earnings Per Share numbers, so these must be generated using number of shares data. There is a question of the accuracy of this approximation. Also could consider using IFIS data as an alternative source to I/B/E/S.
(F) Data?	Japanese firms are required to disclose their forecasts for next year with the current year annual earnings release. The dataset will comprise annual earnings releases and management forecasts (MFs), voluntary management forecast revisions (non-periodic), analyst forecasts (AFs) and revisions, and daily share price data around the management forecasts and revisions. The sample will comprise firms from the 1 <sup>st</sup> section of the Tokyo Stock Exchange - 1,500 firms over the most recent 10 years. We will use various databases for the project. Nikkei Financial Quest database for financial data. Nomura Research Institute database for MFs. CGES data for corporate governance (CG) (essentially captures board size and composition, incentives for executives and share ownership structures).
$(\Gamma)$ D, $t \in \mathcal{D}$	management forecasts are perceived to be more credible. H2: There is a positive association between prior year analyst forecasts and management forecast revisions when analysts' forecasts are more credible.
	H1: Initial forecasts (and revisions in) analysts' earnings forecasts are positively associated with management earnings forecasts when
	the effects of credibility on the relationship between analyst response and earnings expectation. Where managers have previously found it difficult to forecast earnings accurately (and analysts' forecasts have been more accurate), it is possible that managers use analyst forecasts to inform their own current year earnings forecast. Therefore, we posit that the accuracy of management forecasts is dependent on the credibility of analyst forecasts (H2).

(I) So What?	The requirement for management to forecast next period earnings potentially changes the role that analysts play in the provision and dissemination of firm level information.
ONE	One bottom line
(J) Contribution?	Prior studies have not examined the effects of analyst following on the properties of MF. This was acknowledged in Kato (2009).
(K) Other Considerations	Is Collaboration needed/desirable? – This project will involve researchers with different but complementary skill sets.
	Target Journal – Pacific Basin Finance Journal
	"Risk" assessment – There has been a number of studies using the Japanese setting. However, we believe the risk is moderated due
	to lack of availability of the CG/transparency data.
	Is the <b>scope</b> appropriate? Yes.

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Pitcher's Name	Sue Wright and Bronwyn McCredie	FOR	Governance	Date	16-8-2017		
(A) Working Title	Fight or Flight: CEO Human Capital During Financial Distress						
(B) Basic Research Questions	How is the type of CEO human capital related to bankruptcy risk and CEO turnover?						
(C) Key paper(s)	1. Custodio, Ferreira and Matos (2013) "Generalist versus specialists: Lifetime work experience and chief executive officer						
	pay", Journal of Financial Economics, 108, 471-492.						
		2. Crook, Combs, Ketchen, Todd and Woehr (2011) "Does human capital matter? A meta-analysis of the relationship					
	between human capital and firm performance", Journal of Applied Psychology, 96, 3, 443-456.						
	3. Weisbach, M. S. (1988), 'Outside Directors a						
(D) Motivation/Puzzle	(1) Becker (1964) first identified two types of		1 0	· · · · · · · · · · · · · · · · · · ·	/ < /		
	found that poorly performing firms have high C						
	of the relation between human capital and firm	n performance, find	ing a positive relatio	n that is st	conger for firm-specific		
	human capital than general human capital.		1 0 1	~			
	Puzzle: combining the above, why do some CE			g firm, takii	ng flight, whereas other		
	CEOs facing the same challenges, choose to sta	ay and fight for imp	proved performance?				
THREE		~ .~	1.1				
(E) Idea?	Is the puzzle resolution related to their relative	1 0	<b>1</b>		e		
	capital are more marketable, and receive high marketable, on lower pay (e.g. Custodio et al. 2						
	We propose a similar analysis in a period expo	·	6	•			
	Contrasting Custodio et al., we take the perspec			· ·	1 I		
	We expect that CEOs are aware of their type of human capital and its marketability, and will act rationally in the face of poor firm performance. We expect that CEOs with more general human capital are more likely to leave at times of stress, such as poor performance, compared to those with more firm-specific human capital, whom we expect are more likely to						
	stay and fight.	····· ································	····· ································		-p		
	We hypothesise that: in the face of poor perf	formance, general	human capital is pos	sitively rel	ated to voluntary CEO		
	turnover, whereas firm-specific human capital is less positively or negatively related to voluntary CEO turnover.						
		1 2	6 5				
	We will include both general CEO human cap	oital and firm-speci	fic CEO human capi	ital as mod	erating variables in the		
	relation between firm performance and non-for	ced CEO turnover.	•		-		
(F) Data?	We study this question in Australia in the C	1	<b>1</b> 7	•	· •		
	performance. Australia is chosen because the CEO is rarely also the Chair of the Board (less than 5% CEO dua						
	so the CEO is more at liberty to depart at a tin	ne of his or her cho	osing. We will colle	ct data for	the top 300 ASX listed		

A8: Phase I Registered Pitch – CEO Human Capital

	firms from 2007 to 2016. Data is generally available from existing databases (eg Connect4, FinAnalysis), apart from the identification of voluntary CEO turnover, which needs to be hand-collected from a variety of sources including company announcements, press reports and information about the CEO. General human capital is measured using CEO degrees and qualifications, age and total remuneration. Firm-specific human capital is measured using tenure in the position, and number of previous positions in other firms. The final selection will depend on data availability.
(G) Tools?	To eliminate any potential endogeneity issues a system of simultaneous equations will be employed to investigate: 1. determinants of voluntary CEO turnover, including both general and firm specific human capital (probit model); and 2. the impact of CEO turnover and general and firm specific human capital on firm performance. We will follow the prior literature in controlling for firm performance measures, sales, CEO duality, bankruptcy risk, CEO ownership, and include year and industry fixed effects. The classification of forced versus voluntary CEO turnover will be based on factors including the content and tone of the reasons for departure provided in public announcements, including the length of the announcement, the availability of a replacement, the age and next role of the departing CEO. The classification of general versus firm-specific CEO human capital is based on methods used in the prior literature (e.g Murphy and Zabojnik, 2007: http://ssrn.com/abstract=984376).
TWO	
(H) What's New?	The novelty is the theoretical explanation of why some CEOs take flight and why some stay to fight; the idea of associating voluntary decisions by CEOs with the nature of their human capital. That is: decisions to leave with their level of general human capital; and decisions to stay with their level of firm-specific human capital.
(I) So What?	Choice of CEO matters. CEO remuneration is high, as is the cost of CEO replacement in the event of turnover. CEO performance and remuneration are also strongly linked to firm performance. Getting a "better fix" on the "right" combination of CEO skills to both hire and invest in for the firm's situation is essential for the board of directors. It also assists investors and analysts who are forecasting future performance.
ONE	
(J) Contribution	Enhance the corporate governance literature by providing new evidence on factors associated with voluntary CEO turnover in the context of poor performance, using a unique framework that analyses the differences between CEOs with firm- specific and general human capital.
Other considerations	The idea for this project originated in a working paper by Marion Hutchinson, "Fight or Flight: CEO Human Capital, Bankruptcy Risk and Firm Performance", presented at European Accounting Association Congress 2013, Financial Markets and Governance Conference 2014, AFAANZ 2015.

### A9: Phase I Registered Pitch – Insider Trading

Pitcher's Name	Allan Hodgson, Stacey Beaumont, Raluca Ratiu and Zhengling Xiong	
(A) Working Title	Insiders as Contrarian Fixers?: Arbitraging Winner/Loser Portfolios	
(B) Basic Research		
Question	momentum strings well before price reversion?	
(C) Key paper(s)	(1) DeBondt W. and R. Thaler, (1985), Does the stock market over-react? Journal of Finance, 40, 793-80.	
	(2) Lakonishok, J. and Lee, I., (2001), Are insider trades informative? The Review of Financial Studies, 14(1), pp.79-111.	
	(3) Ke, B., S. Huddart, and K. Petroni, (2003), What insiders know about future earnings and how they use it: Evidence from insider	
	trades, Journal of Accounting and Economics, 35, 315-346.	
(D) Motivation/Puzzle	How markets react to information and the relative level of arbitrage capital are important questions for market efficiency. The well-	
	known winner/loser anomaly is based upon investor psychology and market overreaction with the degree of psychological impact	
	represented by extreme portfolios earning excess returns of 25% over the subsequent 3 years (DeBondt and Thaler, 1985). Insiders,	
	on the other hand, have privileged access to private information and are known to contrarian trade and anticipate price and earnings	
	reversals (Lakonishok and Lee, 2001; Ke, Huddart and Petroni, 2003). From a more general perspective, there is a tension between	
	different information sets assocaited with different key market players, and we can advance our understanding of market efficency	
THREE	and arbitrage processes, by designing empirical tests that exploits this tension.	
	Three core aspects of any empirical research project i.e. the "IDioTs" guide	
(E) Idea?	The key idea is to examine the profitability of insider trading in the context of potential "winner-loser" pressures - to see whether and to what extent the well-known ability of insiders to contrarian trade on private information, counters the general market's over-reaction	
	disposition. We have several broad predictions:	
	i. Corporate insiders recognise the overreaction by traders and adjust their transaction behaviour to take advantage and earn	
	excess returns.	
	ii. Insider based contrarian selling increases well before the winner/loser portfolio price string breaks.	
	iii. There is a U-shaped functional trading and return relationship between insiders and the decile based winner/loser portfolios.	
	iv. Insiders trade upon knowledge of forthcoming accounting disclosures per Ball and Brown (1968, JAR).	
	A baseline analysis will focus on the US. At a second stage, a comparative study using an Asian market (specifically Hong Kong),	
	that differs significantly in culture and ownership structure which offers contrasting predictions. We will also examine trading and	
	return results before and after the GFC and examine if insider predictive ability was compromised (Womack, 1996, JF).	
(F) Data?	The US market data to be used are daily stock returns sourced from CRSP and firm variables from COMPUSTAT and the UQ database	
	on insider trading for 4,954,744 insider open market transactions for 24,811 US firms during 1986-2016. For Hong Kong, we have	
	214,006 insider transactions for 2007 HK firms during 2003-2016.	
(G) Tools?	Winner/loser portfolios will be constructed over a three-year period and rolled over every subsequent three years (Debondt and Thaler,	
	1985). We will measure insider returns using cumulative abnormal returns (CARs) and buy-and-hold abnormal returns (BHARs).	

TWO	<ul> <li>Several different approaches to calculate abnormal returns: market adjusted, Fama-French three factor and Fama-French five factor models. Insider trading activity will also be calculated by [NETSELL/BUY]/TOTAL TRANSACTIONS</li> <li>Finally, we will run firm-portfolio year level regressions to insider returns and trading activity as a function of the winner/loser portfolios using controls for:: total assets (TA) (Seyhun, 1986, JFE); book to market ratio (BM) and annual stock return to control for contrarian trading tendencies (Lakonishok et al., 1994, JF, Rozeff and Zaman, 1998, JF); as well as (R&amp;D) (Aboody and Lev, 2000, JF); and loss dummy (LOSS) (Huddart and Ke, 2007, CAR and Brochet, 2010, TAR).</li> <li>Two key questions</li> </ul>	
(H) What's New?	No paper is yet to research market reactions to the conditioned trading of corporate insiders, Winner and Loser portfolios, and the impact of accounting variables (earnings).	
(I) So What?	Market efficiency and the speed of reversion to fundamental values drives the integrity of markets. Should the research indicate that the market has an (immediate) converse reaction to the trading of insiders then the behavioural (disposition) traits of investors are negated. Corporate insider trading should then be supported but regulated and mechanisms made available to transfer that information to markets. If not, then evidence is provided that the behaviour of the market over-powers private information trading and investors should be informed that this behaviour is a non-diversifiable longer term risk. Investors, aware of the behaviour risk and its relation to accounting factors will now be better informed when setting up risky trading strategies.	
ONE (J) Contribution?	One bottom line The paper will contribute to behavioural finance and the trade-off between the possibility of insider arbitrage to market over reaction and possible links to accounting. It is very much a paper about information flows and determining how markets work. We contribute by undertaking comparative winner/loser research, in two countries with different legislation, business culture, and institutional/family/individual stock ownership. Such research is very limited in cultures different from the Anglo/Saxon developed market world and our research will offer a benchmark to undertake further international comparative studies. The different business cultures of Asia and Eastern Europe offer substantial research extensions.	
(K) Other Considerations	The major problem is to decide the event sequence of when an insider trades and on what is the driving information factor? For example does an insider contrarian trade on the string of earning increases/decreases or the string of CAR increases/decreases or simply react to market over-reaction? Moreover control factors will also need to be carefully considered and they will differ between the US and HK.	

#### **Appendix B: Phase II Registered Study Plan Guidelines**

(1) Registered Pitch (Phase I) - to be included as an important reference point Please note that, to facilitate the ongoing positive development of ideas and plans for your study, some fine-tuning of the Stage 1 registered pitch is still allowable & appropriate in Stage II of the registered study plan. The overall guiding principles for such pitch modifications are: (a) that the core thrust of your original pitch is NOT compromised; (b) the amendments to your pitch are deemed relatively minor; (c) the amendments help achieve a coherent and "seamless" transition from pitch to full study plan (covered by headings (2) and (3) below).

<ul><li>(2) Hypotheses</li><li>1. Can the (numbered) hypotheses be described in terms of relationships between the conceptual or theoretical variables?</li></ul>	Comment This is asking if the hypotheses are developed or consistent with theory. Have the major pieces of literature been reviewed? (For the reviewer, is any substantive literature missing?)
2. Can the (numbered) hypotheses be described in terms of relationships between the empirical variables?	This is asking if the hypotheses can be tested. Think about the internal and construct validities (the Libby diagram below might assist your thinking about these).
3. Are there: Competing "stories", contrary positions? Alternative explanations? Interactions?	A figure or table may help describe more complex relationships. How will these be handled in the method and analysis stages?
<ul><li>(3) Method and Plan</li><li>Empirical Model</li><li>1. What is the <i>model</i>?</li></ul>	This can be easier if the (base) model is standard in the literature – in which case a clear reference to a specific paper and relevant equations (with page reference(s)), might help make this efficiently concise in the study registration stage.
2. What are the <b>variables</b> ? Independent Dependent Controls	Be as specific as possible.
3. In the main ("signature") analysis, how will the variables be Measured? Transformed?	Note that simply referring to a study might be too restrictive as variations will end up in the post- registration analysis.

Scaled? Is multicollinearity likely?

4. Is there a clear plan for **robustness** checking? What are reasonable/meaningful alternative ways of modelling and estimating the relationships, measuring the variables, time periods and any measures needed for sensitivity analysis?

5. What additional analysis might be necessary to rule out **alternative explanations**?

Data & Sampling strategy

6. What data will be used?

7. What is the sampling plan? What are the exclusion criteria? How will outliers be handled?

Miscellaneous

1. Causality – the extent to which causality is at issue in your proposed study, what is your identification strategy?

2. Are the statistical methods appropriate?

3. Do the proposed statistical tests relate back to a hypothesis?	If the linkage of testing and hypotheses is indirect, why is the proposed element of analysis needed?
4. Economic significance	Assuming that the study achieves statistical significance, how will economic significance be assessed?

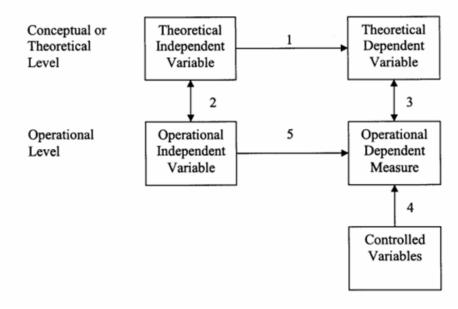
Overall

Is there any possible contingency or assumption that needs to be discussed with the reviewer?

There should be sufficient data such that the project is replicable. What is the likely sample size – both overall, and in terms of any likely sub-analysis?

Reviewers ought to consider alternative data sources

If the planned exclusion criteria are not robust, then any additional criteria must be brought to the attention of the reviewer. The additional criteria will need to be tagged (footnoted) in the paper.



Validity links: 1. Internal validity

and 3. Construct validity
 Statistical validity