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- **Reducing Systems Implementation**
- **Failure: A conceptual Framework**
- <sup>3</sup> for the Improvement of Financial Systems
- **Implementations within the Financial**
- **Services Industries**
- 6 Derek Hubbard and Raul Valverde

Abstract The financial industry continues to change, become more global, 7 complex and important to economies all around the work. The industry continues 8 to be in flux and the world financial crisis has resulted in changes that have changed the industry for good. The need for agile, accurate and detailed financial 10 systems has never been so important. This research discusses the issues associated 11 with implementing financial systems within financial services companies, a con-12 ceptual framework has been built that will help reduce the risk of implementation 13 failure in future financial systems implementations. Financial experts can use the 14 framework to reduce system implementation risk; help deliver projects on time to 15 budget whilst meet the functionality requirements of stakeholders. 16

AQ1

Keywords Financial information systems · Risk management · Implementation
 failure · Risk identification

# 20 **1 Introduction**

There are many challenges faced by finance staff implementing systems within financial service firms. Some of these challenges are listed below:

- System failures cause serious issues for finance departments and can be very
  - costly.

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D. Hubbard UBS, Investment Banking, Singapore, Singapore e-mail: Dereck.hubbard2@binternet.com

R. Valverde (⊠) John Molson School of Business, Concordia University, Montreal, Canada e-mail: rvalverde@jmsb.concordia.ca

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• Finance staff is chosen to be involved in systems implementations due to their functional finance expertise and not according to their skill set to implement

27 systems effectively.

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• Finance systems within financial services tend to be specialized and need extensive input and involvement from financial experts to ensure the system works, this is not always the case so increases the implementation risks.

• Simon [1] states that 49 % of implementations have budget overruns, 47 % of

implementations have higher maintenance costs and 41 % fail to deliver the expected business value or return on investment.

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<sup>35</sup> The research study has the objective of creating a framework for reducing the risk

<sup>36</sup> of failure of the implementation of financial systems.

## 37 **2** Literature Review

A strong financial services industry is an important factor in ensuring that the 38 economies of the world function efficiently. "Financial systems facilitate the 39 transfer of economic resources from one section of the economy to another" [2]. 40 Over recent years we have seen a financial crisis that rocked the world's econo-41 mies and saw the collapse of some of the industries largest players. Lehman 42 Brothers collapse in 2008 sent shockwaves through the global financial systems 43 industry. We saw emergency consolidations, huge government interventions and 44 nationalization of some banks. The current situation regarding the European 45 banking system is not stable. The financial trilemma indicates that the three 46 objectives of financial stability, cross-border banking and national financial 47 supervision are not compatible [3]. 48

Over recent times, the deregulation of 'financial regulation' coupled with the 49 transforming use of information technology transformed the business models 50 banks used by banks. Online banking, on line brokerage services, and more 51 sophisticated products transformed a highly predictable conservative business into 52 a dynamic one. The increased risk of increasingly large sized banks, internation-53 alization and increased product complexity was made possible through the con-54 tinuous de-regulation of the industry. The Regale-Neal Act of 1994 reduced the 55 barriers for geographical expansions of firms in the US and allowed interstate 56 banking and The Gramm-Leach-Bliley Act of 1999 expanded the permissible 57 activities of commercial banking as stated by Hendrickson [4]. Both acts led to 58 merger and acquisitions amongst financial institutions and the creation of very 59 large international businesses. The Glass-Seagull Act of 1933 did not allow 60 commercial banking firms to participate in investment banking actives, but the act 61 was repealed partly in 1994 and then the final parts repealed in 1999. The effect of 62 this was to further increase the risk within the industry as people's monetary 63 deposits where then being linked to more risky investment activities. The new 64

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truly 'global financial industry' continued to attract the very best talent which then led to advances and more exotic product innovation.

Following the recent and on-going financial crisis we have seen governments 67 trying to reverse the de-regulations of previous years; a number of laws have been 68 introduced for example; the US House of Representatives passing the Wall Street 69 Reform Act and Consumer Protection Act of 2009 [4]. The success of the mea-70 sures governments are taking to try and re-regulate banks is questionable. Despite 71 the huge attention and increased focus on audit, sign-offs and disclosures that 72 accompanied the two acts cited, we are still seeing huge trading issues within 73 leading institutions. Examples include the unauthorized rogue trading at UBS 74 costing the firm \$2 billion instantly [5], JP Morgan losing \$5 billion via incorrect 75 trading losses [6] and Barclays being fined a record amount of \$453 million for the 76 manipulation of LIBOR rates [7]. 77

We have seen if an industry is not regulated correctly and at the same time 78 continues to innovate with advances in technology that the successes and benefits 79 of the industry may be out weighted by the problems and costs that can arise. Huge 80 international companies are not easy to audit nor is it simple to get clear trans-81 parency of their risk positions. In 2012 there have been number of major regu-82 latory interventions to try to prevent the same type of financial crisis as in 2008. 83 Basel 11/111 will try to ensure that banks are holding enough capital, Wall Street 84 reform and the Consumer Protection Act (Dodd-Frank law) will ban proprietary 85 trading which was one of the main reasons banks become over leveraged and 86 risked their existence [8]. 87

<sup>88</sup> So in summary the financial industry is a critical part of our society whose <sup>89</sup> success can be linked directly to our prosperity. The industry's significance has <sup>90</sup> grown since the 1980's and now banks are huge institutions that span the world <sup>91</sup> selling often-complex products that are often difficult to control. The huge <sup>92</sup> amounts of change impacting the industry will have a knock on impact on systems <sup>93</sup> implementations. Ensuring internal projects are successful is one way a bank can <sup>94</sup> help itself in difficult times.

Software project failures cost companies millions of dollars each year and often prevent key business objectives from being met. Failure estimates, defined primarily by cost and time budgets, overrun as high as 85 % of the original financial target. This is well documented in writings by Jiang [9]. Projects themselves are not just good implementations or bad ones. There are degrees of failure. Failures are too common when implementing financial systems and we will examine the reasons why in more depth.

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## **3** Research Methodology and Data Collection Methods

A questionnaire was designed to collect data for this research. The questionnaire was designed for people that have implemented financial systems projects. The questionnaire required respondents to state their type of involvement in the

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implementation and to read a set of systems implementation risks and rank risks 106 from 1 to 13 according to its impact on the success of the overall project. Here 107 ordinal scales have been used. Respondents were also asked to give each risk a 108 second rating score according to how well it was executed. This score here is from 109 1 to 5. The questionnaire asked the respondents to choose the top 3 risks that could 110 have been improved in the implementations they took part on. The questionnaire 111 included open ended questions for respondents to then elaborate on how 112 improvements could be made in these areas. 113

The final part of the questionnaire asked about the reasons for implementations 114 and asked for overall judgments. The reason for the implementation question was 115 answered by using a very simple nominal scale where there is no relationship or 116 ordering to the numbers used. The questionnaire was administered electronically 117 by email. Respondents were emailed initially to check their email addresses and 118 give their agreement to participate in the research. A pilot questionnaire was 119 constructed and given to 3 respondents to check that the instruction and meaning 120 of the questions was clear. Feedback was given and taken on board on the layout 121 and format of some of the questions. 122

The primary data collected in this research has been collected using a judgment 123 sampling method. Remenyi et al. [10] acknowledge that judgment samples are 124 inherently subjective but justify the use of judgment samples explaining how 125 "samples are taken where individuals are selected with a specific purpose in mind, 126 such as their likelihood of representing best practice in a particular issue", this 127 means that the sample was essentially non-probabilistic. From the outset it became 128 clear that statistical tests on this type of 'case study' research would have not been 129 possible. 130

The sample size here was 40. Whilst this may appear to be a small number it does actually represent a large body of knowledge, experience and expertise in a less explored area of research. Respondents work for one of 11 top tier financial institutions, making in effect, a series of small case studies. Some of the banks include Barclays Bank, UBS, Citi Bank, HSBC, Credit Swiss, Lloyds and Bank of America.

The respondents were questioned from many different countries to represent a geographical spread. There is input from 9 countries but importantly, the key financial hubs around the world have been incorporated. These include London UK, Hong Kong, Singapore, New York US and Zurich Switzerland.

<sup>141</sup> The research was split into 2 key aspects.

• A ranking of the risk categories to establish which is the most important to a successful implementation

• A rating to show which risks are normally well executed and which ones are not.

These aspects need to be analyzed to build the framework needed to help improve

the success of future systems implementations in financial service industries.

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<sup>148</sup> The data was analyzed and presented by:

 By importance ranking—risk factors were ranked in order of importance by respondents. An average was calculated and the results re-ordered and tabulated. The lower the number the more important the risk factor to an implementation.

By execution rating—an average was calculated for respondents' scores for
 execution. Each factor was averaged in turn. The higher the number the worse
 that factor was executed.

3. A focus factor was calculated—The importance ranking data and the execution rating data were combined to create a focus factor. The two data sets were added together and averaged. The focus factor illustrates the combined importance of that factor overall. Some factors are very important and executed well. Some less important factors were executed very badly. The combined position helps the project teams to understand the importance of the combined picture.

A framework for reducing implementation failure was created. The proposed framework uses the importance ranking, execution rating and focus factor results. Data from the questionnaires were combined to create the overall framework, prereadiness assessment and during the project risk assessments. The framework was reviewed with two post project reviews in order to assess the usefulness of the framework.

### <sup>169</sup> **4 Data Presentation and Discussion**

When questioned about the success of software project implementations; 28 % of 170 responses stated that the project went really well and improved the department. 171 31 % stated that the project went well but the capability wasn't really improved. 172 23 % stated that the project was ok but not worth the investment. In this case the 173 respondents would not have started or commissioned the project if they had known 174 the outcome. The most worrying scores where the next two categories. 10 % stated 175 that the project was really poor and actually moved the department backwards. 176 This was due to less functionality, poor reporting and poor processes. 8 % stated that the project was a complete disaster. All respondents were allowed to state the 178 main reasons for issues with the implementations and the majority of responses 179 state that a lack of resources and funding issues resulted in a compromise in the 180 systems execution capability. Poor training or rushed user acceptance testing was 181 also noted. 182

When asked to state the key things that went wrong the majority of answers fell into the following 6 categories:

1. **Scope Creep**—Project scope kept moving causing re-work, budget issues and productivity loss

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Budgets—Budgets are always tight but due to issues with financial markets
 budgets are often cut. Scope creep without budget increase can cause lack of
 delivery

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- 3. Lack of engagement—Poor communications resulted in the majority of the team feeling completely disengaged
- 4. Poor Requirements—The project delivered the requirements, but the requirements were incorrect and therefore the project was deemed to have failed
- 5. **Training**—Lack of UAT or user BAU training results in lack of adoption or resistance
- 6. **Leaders**—Leaders not resolving issues when problems happen. Conflict resolution or resources allocation then become issues that could then go off track and de-rail the implementation.

An analysis that examines the factors that make a system successful or not was 200 conducted by using a questionnaire. Financial experts ranked 13 factors in order to 201 show the most important and least importance factor in making a project imple-202 mentation successful overall. This data was then split and cut into sets according to 203 the level of use, knowledge or expertise etc. For example subject matter expert 204 responses can be compared to the responses of people leading the project. This 205 would be useful for example to compare the level of contributions from different 206 roles and grades of staff within the company. 207

The success of each individual factor within an implementation has been assessed along with how well it was actually executed. So overall importance and execution can be compared.

Figure 1 has been constructed by looking at the overall rankings submitted by 211 the respondents. The results have been generated by adding together and then 212 averaging the ranking ratings. For example for user participation, the sum of the 213 ranking scores is 126 as some respondents ranked it 1st and some ranked it 10th. 214 On average people ranked it 3.9 out of 13 but this score made it the most important 215 out of all the factors after all the factors had been added together and averaged one 216 by one. Top management support's overall score was 150 giving an average score 217 of 4.7. 218

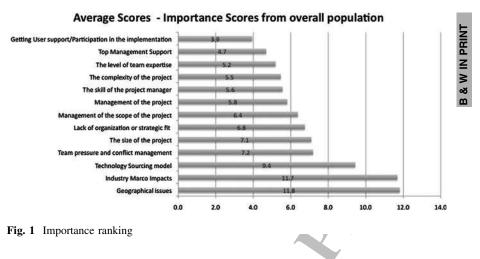
This next section looks at the execution of each factor. This does not take into 219 account ranking but purely whether the factor was executed well or not. 220 Respondents rated their experience with each factor from 1 (very negative) to 5 221 (very positive). Scores were then added together and an average was calculated. 222 Essentially the lower the score the least successful that factor was implemented, 223 the higher the score the better that factor was implemented. The results can be seen 224 in Fig. 2. A similar approach has been used with this data; the overall position of 225 the factor has been calculated and then the data has been further organized 226 according to role, use level etc. 227

Figure 2 shows that the execution factor ranking is very different to the importance ranking discussed earlier. The lowest scores (therefore showing the least effectively executed factor) are team pressure and conflict management

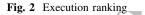
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followed by management of scope, complexity and size of the project. The most successfully executed factors were top management support, team expertise and getting participation from users during the implementation. The latter set of factors were all ranked as the most important factors in the previous discussion.

The execution and importance were combined to create a joint list of important and focus for execution. By combining the two rankings and highlighting the learning points, there is the potential to reduce the negative responses, the like of which has been documented in the table below. This combined ranking puts a different emphasis on what needs to be focused on (Table 1).

AQ3

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Total

Table 1 Areas of focus

Average of	combined	l ranking	
------------	----------	-----------	--

Factors	Ranking	Ranking 1	Combine	ed
	overall	and 2	score	
Top management support	2	3	5	
The complexity of the protect	4	4	8	2
Management of the scope of the project	7	2	9	3
Team pressure and conflict management	10	1	11	4
The level of team expertise	3	8	11	4
Getting user support/participation in the implementation	1	11	12	6
The skill of the project manager	5	8	13	6
The Size of the project	9	4	13	8
Lack of organization or strategic fit	8	6	14	10
Management of the project	6	12	18	11
Industry macro impacts	12	6	18	11
Technology Sourcing model	11	8	19	12
Geographical issues	13	13	26	13

#### 240 **5** Conceptual Framework

From the outset, this research set out to create a user friendly tool that could be used by professionals to better implement financial systems. Current research into the area and primary data has been combined to present a set of documents that can

- <sup>244</sup> be used with finance teams to improve system implementations.
- <sup>245</sup> The framework was constructed using:
- <sup>246</sup> 1. The importance ranking insight gained from the research
- 247 2. The execution rating insight gained from the research
- <sup>248</sup> 3. The combined focus factor insight gained from the research

The overall framework is documented in Table 2 and starts with the main 249 categories that cause project failures; top management support, scope change 250 management and user participation are all examples here. The framework then 251 explains the main risks and implications of not mitigating the risk. This is to help 252 inform the project team of issues with system implementations. The framework 253 then recommends the actions that need to be completed before and during a 254 project. The use of the framework will not guarantee the success of a system 255 implementation project but will help ensure a project is prepared, learns from basic 256 errors other projects have made and self monitors its own progress. 257

AQ4

If inportant that everyone       (1) Project sponsor completes training and ductstands why reviews readiness assessment to ensure they stay on complete delivery readiness assessment to ensure they stay on complete delivery readiness assessment is completed delivery readiness assessment is completed and management complete the implementation in steering communications for the project implementation is the required by Senior Management and dealt runing implementation is the required by Senior Management and the required by Senior Management (1) Ensure senior management complete the implementation is the required by Senior Management in a support of the project claded approver of the project claded (1) For large are indecreted (2) Ensure there is public recognition of the assessed before the assessed before (1) Ensure standards.       (3) Send Ou communications for the project claded (1) For large project claded (1) For large are made (1) Ensure standards.       (3) Send Ou communications for development to behow (1) For large are made (1) Ensure standards.         Systems rare often over completed (2) Complete (2) Ensertifica (2) Send (2) Completed (2) Completed (2) Comp	Impli mitig	Implications and risk mitigating	Actions before you start	Actions during project
<ul> <li>bare: 13, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10</li></ul>	l's i' p t t t	mportant that everyone derstands why rojects go wrong, how o ensure they stay on ack and the risks wolved	<ol> <li>Project sponsor completes training and reviews readiness assessment</li> <li>Subject matter experts and project leader complete delivery and mitigation training</li> <li>A project delivery readiness assessment is completed</li> </ol>	Project implementation progress assessment to be completed
<ul> <li>(2) Ensure there is public recognition of the vith quickly support of the project to ensure issues are understood and dealt with quickly is ensure and on the communications from Exec (3) Scope changes are to be assessed before sponsor and project lead sponsor and project lead (4) Ensure top management allocates the correct human and financial budget and resources to make the project a success. Ensure the scope, financial budget and resources are made together (1) Plan to use standard functionality unless this (1) Document the system development to help hand over the software to run assessment before design is completed to assessment before design is completed a system in the future (4) Ensure there is a plan for updating the system in the future</li> </ul>	s s	e want to ensure that mior management upport system	(1) Ensure senior management support. Senior management complete the implementation training	<ol> <li>For large project implementations continuous communications of support will be required by Senior Management</li> </ol>
<ul> <li>(1) Plan to use standard functionality unless this (1) Document the system development to help use is impossible is impossible reduce time to resolve issues and to help reduce time to resolve issues and to help reduce time to run band over the software to run (2) Complete a full buying vs build your own band over the software to run (3) Assess existing software to see if anything (3) Assess existing software to see if anything the system in the future is a plan for updating the system in the future</li> </ul>	- <b>H</b>	nplementation	<ol> <li>(2) Ensure there is public recognition of the support of the project</li> <li>(3) Send out communications from Exec sponsor and project lead</li> <li>(4) Ensure top management allocates the correct human and financial resources to make the project a success. Ensure the scope, financial budget and resources are matched together</li> </ol>	<ul> <li>(2) Active participation in steering committees to ensure issues are understood and dealt with quickly</li> <li>(3) Scope changes are to be assessed before changes are made</li> </ul>
<ul> <li>assessment before design is completed</li> <li>(3) Assess existing software to see if anything can be reused</li> <li>(4) Ensure there is a plan for updating the system in the future</li> </ul>	=. c ⊈	ms are often over omplicated, don't use dustry standards,	<ol> <li>Plan to use standard functionality unless this is impossible</li> <li>is impossible</li> <li>Complete a full buying vs build your own</li> </ol>	<ol> <li>Document the system development to help reduce time to resolve issues and to help hand over the software to run</li> </ol>
	0 E. Q	on't reuse existing tternal software and verly customized	assessment before design is completed (3) Assess existing software to see if anything can be reused (4) Ensure there is a plan for updating the system in the future	Ô

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Actions during project	<ol> <li>Ensure detailed design is again signed off and then delivered</li> <li>Impact assessments of any change need to be signed off by senior stakeholders. Additional funding need to be secured before any project plans are changed</li> </ol>	<ul> <li>(1) Make a team effectiveness assessment to ensure we are getting the best from the team</li> <li>e (2) Replace ineffective team members quickly (3) Risks are continuously assessed to ensure the project is delivered</li> </ul>	<ul> <li>(4) Ensure there is an independent review and input regarding project progress</li> <li>(1) Complete detailed project reviews and ensure that the team agrees and signs up to schedule</li> <li>1 (2) Steering Committee will assess the progress in of the project and ensure corrective action is made</li> <li>(3) Milestones deliverables will be assessed against original plan</li> <li>(4) Ensure there is an independent review and input regarding project progress</li> </ul>
Actions before you start	<ol> <li>Ensure the requirements are signed off agreeing the scope of the project</li> <li>Ensure the sponsor, project lead, project team and users understand what success looks like</li> <li>Ensure there is a clear and communicated process to handle score chances</li> </ol>	<ol> <li>(1) Get people with the skill and motivation to deliver a change project. The team needs technical and change management skills</li> <li>(2) The leader needs to be able to communicate with all stakeholders and sell the system. The leader needs the ability to say no</li> </ol>	<ol> <li>There needs to be a process of raising concerns in an open way to enable resolution</li> <li>Detailed milestone plan, scope, budget and resources will be agreed upon before green light</li> <li>Senior management need to foster open and honest discussions</li> </ol>
Implications and risk mitigating	Scope creep can have a disproportionate impact on productivity, cost, morale and results in projects not delivering	Without a team that can work together, with the right expertise then project will fail	Conflict needs to be managed carefully or fairly. These will arise so swift resolution is needed for sake of the project
General focus areas	Scope Change Control Responsible: Stakeholders/Project Leaders/ Subject Matter Experts	Team Expertise <i>Responsible</i> : Project Leaders	Team Pressure and Conflict Management Responsible: Project Leaders/Subject Matter Experts

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ducing	Syste	ems	Im	ple	ementati	on	Fai	lur	e																1	99
Actions during project	(1) It is key to ensure the users have enough time to test and train on the system	(2) Documentation of current processes and the	new system process documentation are	completed	(3) Ensure the project team listens and understands the real issues and doesn't get completely absorbed by tasks	(4) Test scripts are completed by the teams who	will use the system going forward						Ensure the project manager has the authority to	deliver the project									(continued)			
Actions before you start	(1) Lock in key personnel participation who are able to deliver this project	(2) Spend time completing team building	activities to ensure personality team	dynamics are understood	(3) Ensure subject matter experts sign-off requirements and UAT	(4) Create a shared charter explaining how the	project, risk management, communications	and issues should be managed. Ensure all	sign-off to it	(5) End user training, UAT testing and	continuous consultation needs to be at the	heart of the program	Lock in a project manager who knows how to	project manage and has experience	delivering the size of project required. If	large project then you need a project	manager who has completed projects	before, understands planning, risk	management, outstanding communication	skills and strong budgeting skill. Ensure	that the project manager has the technical	understanding of what is required				
Implications and risk mitigating	It is the users who will make the development	work as they ensure the	system works when it	goes live. Active	participation in making this happen is the only way to achieve results								A quality project manager	is worth every penny.	They have done this	before, been successful	and know what it takes	do deliver								
General focus areas	User participation	Responsible: Project Leaders											Project Manager	Responsible: Subject Matter Experts	•											

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Actions during project	Develop prototypes of components and get buyin before all development has been completed	Continue to explain the need and reason for the project compared to the strategic need of	the business	Ensure people keep focused on the future, the project and the reasons the project is being		<ol> <li>Continue to replan and ensure activities are on track or manage expectations early</li> <li>Communication and participation needs to be high to deliver the project</li> <li>Selling the project and ensuring others really understand the progress is as important as the deliverable itself</li> </ol>
Actions before you start	<ol> <li>Ensure roles and responsibilities are clear across the sponsor, project team and users</li> <li>Break the project down into phased completions – Helps progress and de-risks the project</li> <li>Bundle developments into releases, plan these in and communicate the future releases</li> </ol>	(1) Assessment against the end state architecture	<ul> <li>(2) Ensure you're clear on why the project is being completed - Technical/Strategic/ Regulatory - Short/Long Term Legacy - Replace/Enhancement</li> <li>(3) Ensure the benefits of the project are clear, calculated and communicated</li> </ul>	(1) Ensure that the last change in the industry will not impact the project	(2) Ensure that there is a process to continue to gain on sponsor support	<ol> <li>Complete a project plan that is realistic and has contingency with the plan</li> <li>Ensure that the project plans covers a warranty period when the project goes live</li> <li>Ensure that the project uses SDLC or any other structured implementation methodology</li> </ol>
Implications and risk mitigating	Large projects are more complicated and this increases the risk. It's important that the project size is managed through development techniques and reduces risk	A project that is not strategic is by nature	tactical or regulatory	The industry is going through huge levels of	change and this means short term changing priorities, constrained	budgets and distracted leaders/employees It's important that plans are kept up to date, expectations are manged and issues raised to senior stakeholders quickly
General focus areas	Project size Responsible: Project Managers	Organization Fit	<i>Responsible</i> : Stakeholders	Industry Macro Impacts	Responsible: Stakeholders Management of the project	Responsible: Subject Matter Experts

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ducing	g Systems Imp	lementation Failure	20					
Actions during project	Continuously ensure that the vendors are delivering to the schedules they have committed to as part of the overall plan	Appreciate and accommodate different time zones and spend the time to engage and motivate more remote locations						
Actions before you start	It's important that complex (1) Understand how we can de-risk the project Continuously ensure that the vendors are project vendors by using fix price bundles of work delivering to the schedules they have delivering part of the (2) Complete a full assessment of buying committed to as part of the overall project need to be products vs build in-house coordinated carefully	<ol> <li>Need a plan to ensure we keep distance locations up to date with progress</li> <li>Ensure there is a plan in place to gain participation, engagement, testing, training and support from more remote locations</li> </ol>						
Implications and risk mitigating	It's important that complex project vendors delivering part of the project need to be coordinated carefully	Communication, training and co-ordination are difficult issues during complex projects. These are made harder due to time zone differences, and cultural differences						
General focus areas	Technology Sourcing Model <i>Responsible</i> : Project Managets	Geographical Concerns Responsible: Project Managers						

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#### 258 6 Conclusions

The financial services industry is going through unprecedented levels of change. 259 Due to the near banking collapse of 2008, banks have reduced earnings; they have 260 greater levels of regulation, and are required to hold greater levels of capital. 261 Leaders who are trying to manage these changes within institutions can lose focus 262 on implementation projects. System implementations continue to be problematic, 263 not delivering the functionality and benefits the projects promised from the outset. 264 With reduced investment funds and distracted leaders a framework to reduce risk 265 that is easy to use and effective will help projects deliver more. Easy to use tools to 266 help educate leaders, subject matter experts and project leaders are needed. It is 267 clear that issues are commonly repeated across organizations and basic to complex 268 mistakes are continuously made. Although tools will help, it is important to note 269 that system implementations are linked to people. People are the key factor in 270 making it work: from senior leadership sponsorship to the expertise of project 271 managers, from experts participating in development and the end users who will 272 use the system, all play a role. It is important to understand that system imple-273 mentations are huge change projects. Change projects impact people and while 274 people remain flawed with agendas, then projects will continue to fail. The 275 framework produced here is therefore people focused, helping people deliver 276 better systems, de-risking the human role in system implementations. 277

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