# RID PROJECT PORTFOLIO MANAGEMENT

The contributions of a Decision Support Information System.

IAE MONTPELLIER SCHOOL OF MANAGEMENT
UNIVERSITY OF MONTPELLIER

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DOCTORAL CANDIDATE

**PETER BOU SABA**

THESIS DIRECTOR

**PR. REGIS MEISSONIER**

# Literature Review 1

- Project Management
- Multi-Project Management
- Portfolio Management
  - RID Portfolio Management
  - Risk Management

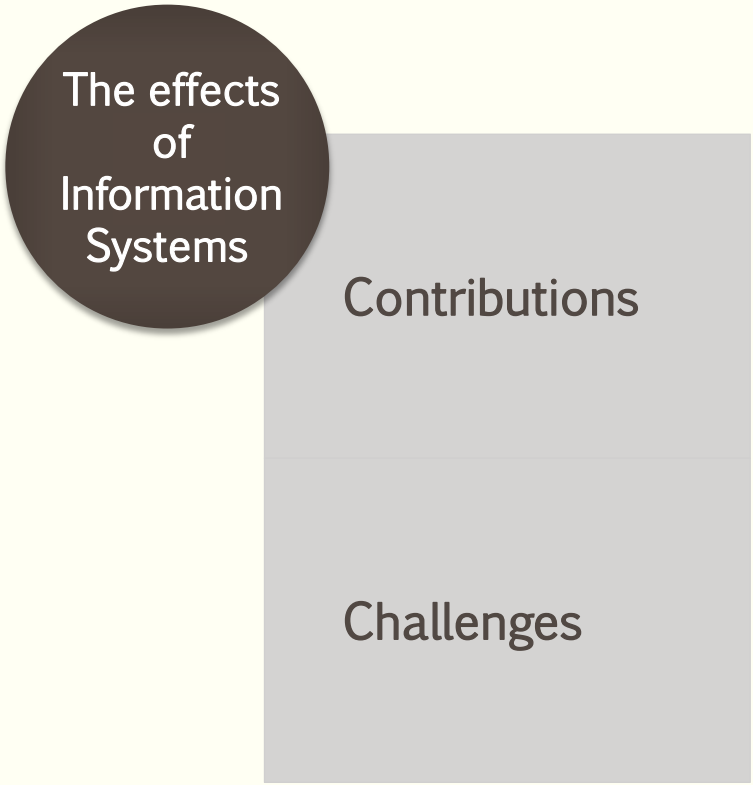
| Authors |
| --- |
| Barczak, Griffin, & Kahn, 2009 |
| Cooper, Edgett, and Kleinschmidt, 2004a |
| Leroy, 2004 |
| Turner, 1993 |
| Gareis, 1990 |

# Literature Review 2

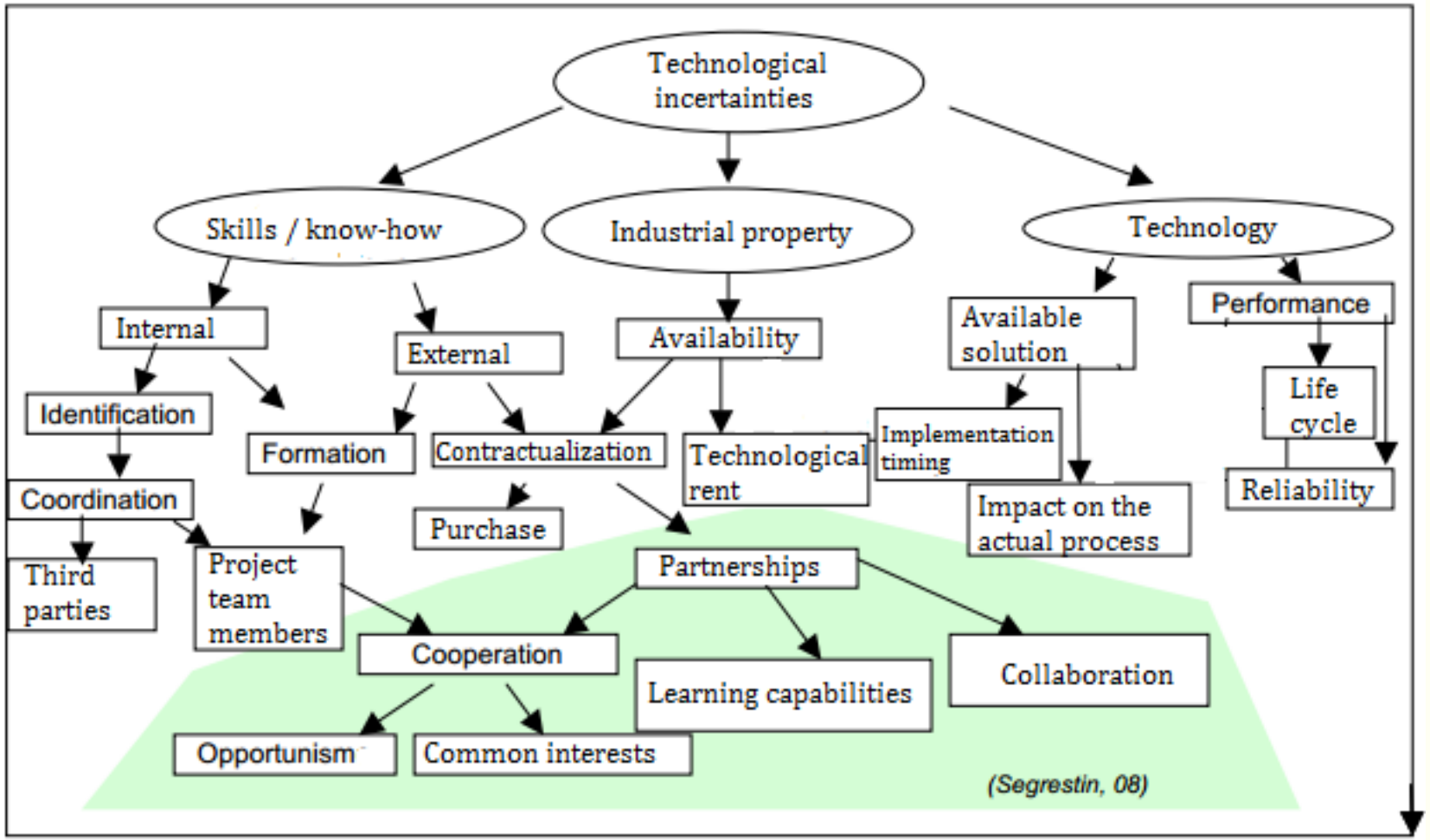
- Managers' Bounded Rationality
  (No optimal decisions exist. Outperforming efforts & knowledge)
- Behavioral Theory of the Firm
  (Only individuals have goals and define how business work)
- Information-Decision Ambiguity
  (Gathering information that has no great decision relevance)
- RID Project Selection Methods
  (Decision-Support vs Decision-Frustration)
- **Decision-Making & Information Systems**

| Authors |
| --- |
| Simon, 1945 |
| Cyert & March, 1963 |
| Feldman & March, 1981 |
| Reix & Rowe, 2002 |
| Verbano & Nosella, 2010 |
| Lederman & Johnston, 2011 |

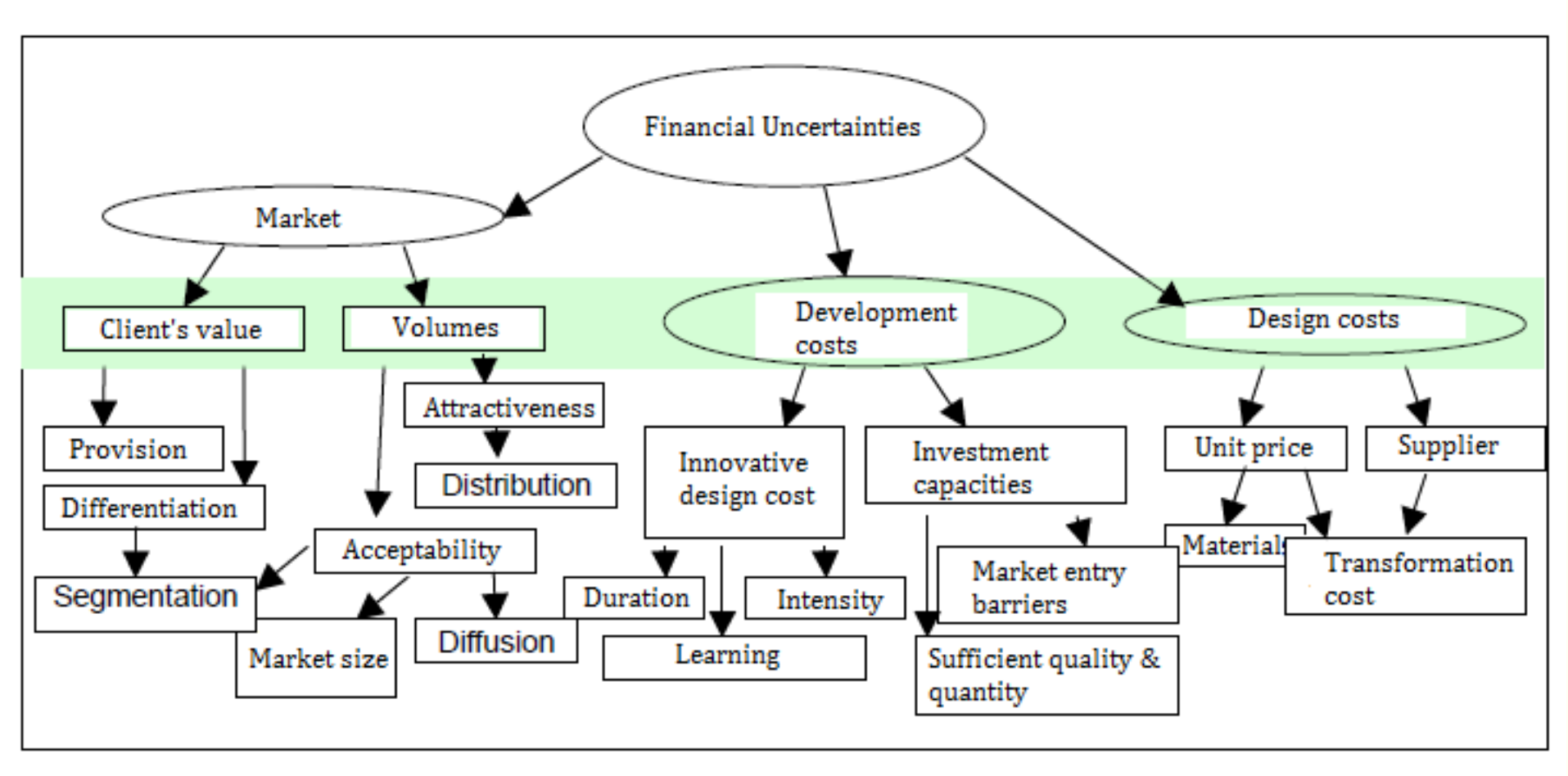
# Theoretical Component



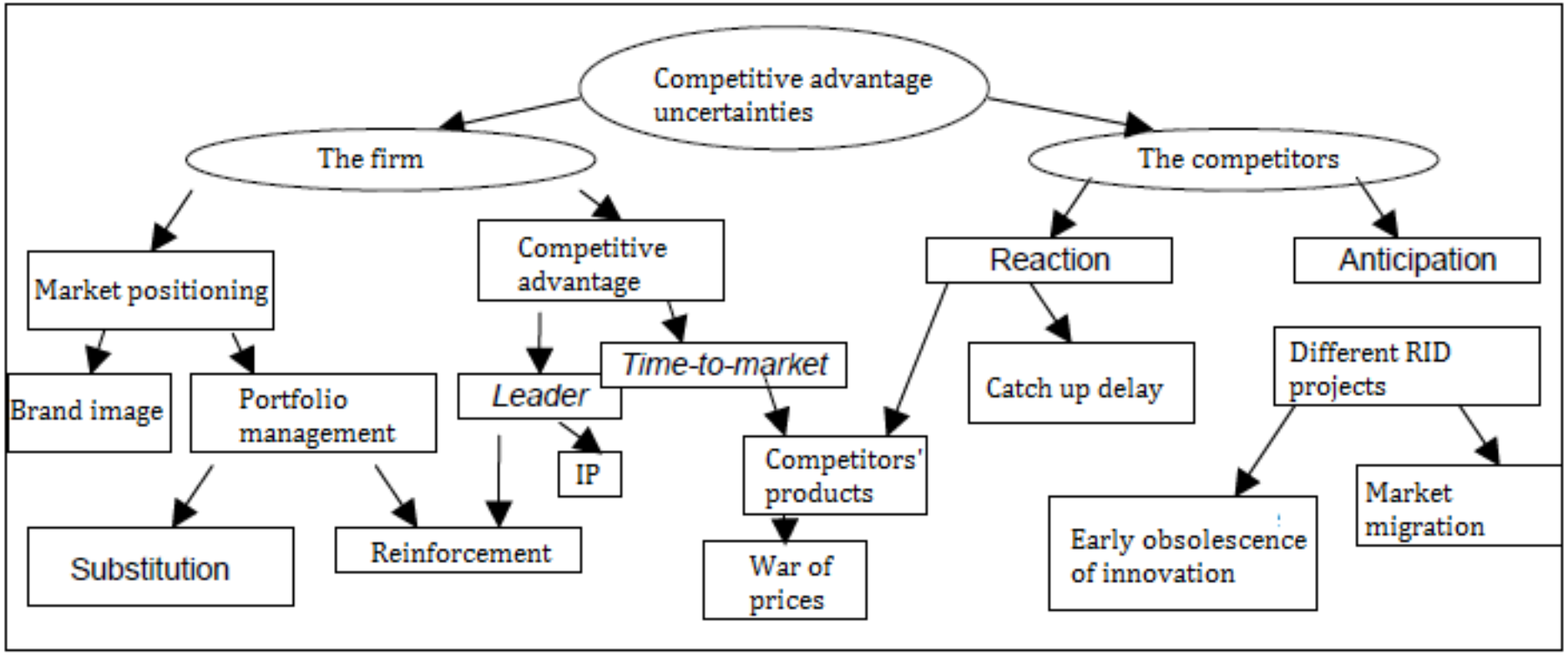
# RID Risks - Technological



# RID Risks - Financial



# RID Risks – Competitive advantage

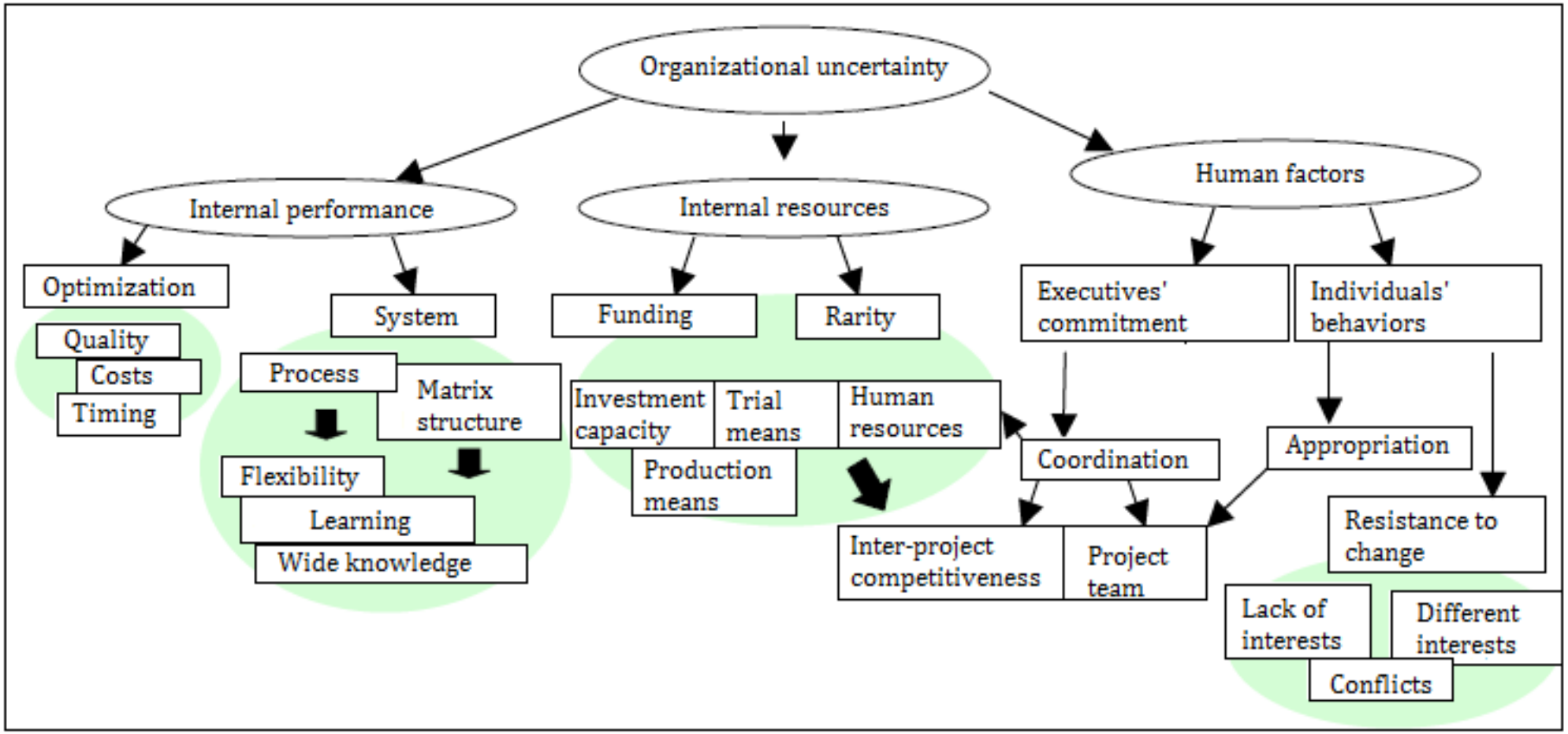


# RID Risks - Regulatory

*"a firm must constantly detain information about any changes of the regulatory circumstances that may prevent the commercialization of their innovative product"*

(Segrestin, 2008).

# RID Risks - Organizational



# The Effects of Decision Support Information Systems

Contributions:

Using and integrating data within the organization's processes may enable firms to improve their decision-making process (Ali & Money, 2005; Delone & McLean, 2003)

# The Effects of Decision Support Information Systems

Challenges:

Information systems that provide managers with old, unreliable and inaccurate information have a negative impact on its usefulness (Raymond & Bergeron, 2008)

# My Thesis

**Research-Action Ph.D. Thesis**

**« RID Project Portfolio Management: Designing and implementing a multi-criteria decision support information system »**

efficient innovation

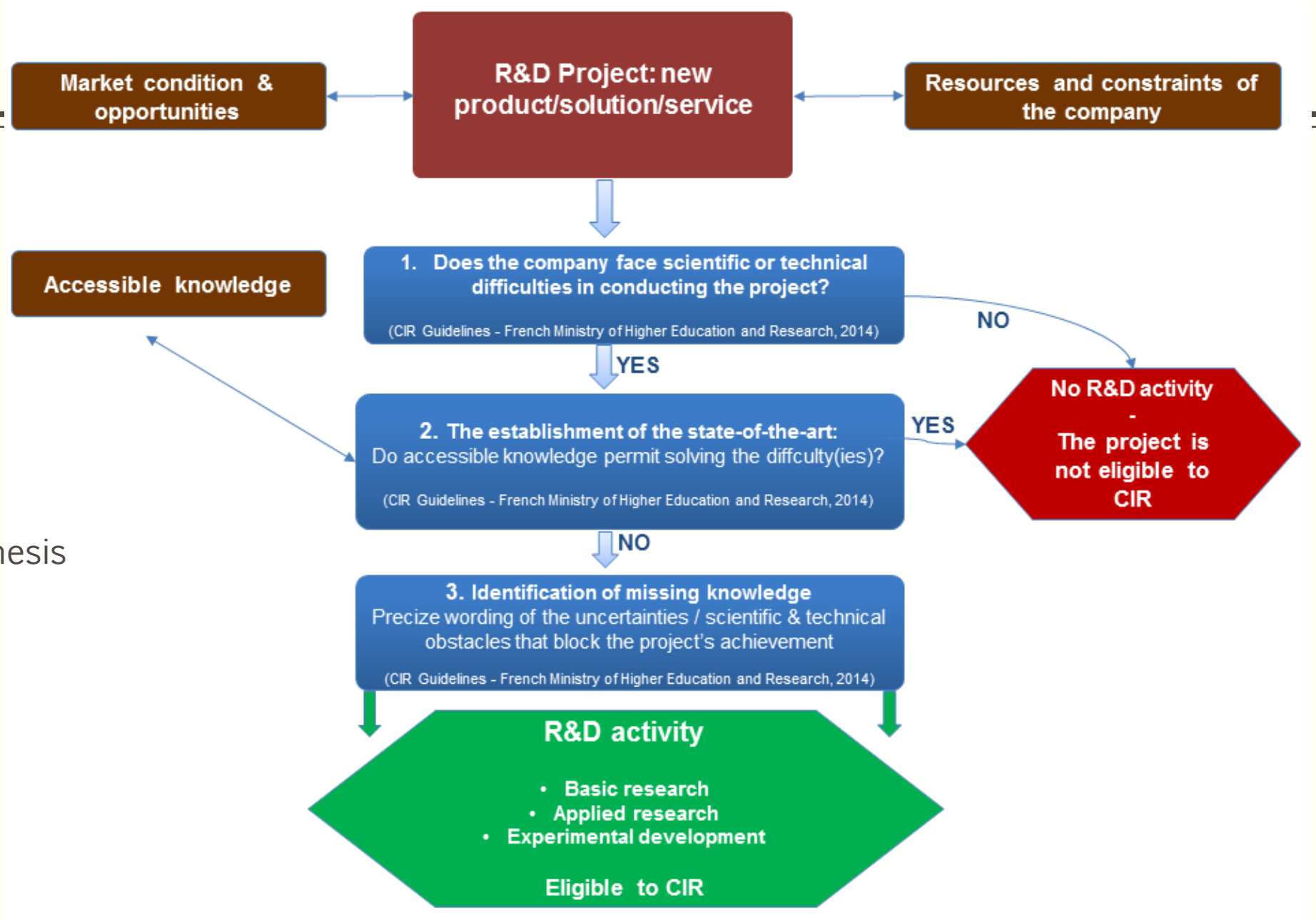
MRM
Montpellier Research in Management

# My Thesis

RID ~~Risks~~
Opportunities

Opportunity: French CIR

Mean: DSS


Market condition & opportunities
R&D Project: new product/solution/service
Resources and constraints of the company
Accessible knowledge
1. Does the company face scientific or technical difficulties in conducting the project?
(CIR Guidelines - French Ministry of Higher Education and Research, 2014)
NO
YES
No R&D activity - The project is not eligible to CIR
2. The establishment of the state-of-the-art: Do accessible knowledge permit solving the diffculty(ies)?
(CIR Guidelines - French Ministry of Higher Education and Research, 2014)
YES
NO
3. Identification of missing knowledge
Precize wording of the uncertainties / scientific & technical obstacles that block the project's achievement
(CIR Guidelines - French Ministry of Higher Education and Research, 2014)
R&D activity
• Basic research
• Applied research
• Experimental development
Eligible to CIR

My Thesis

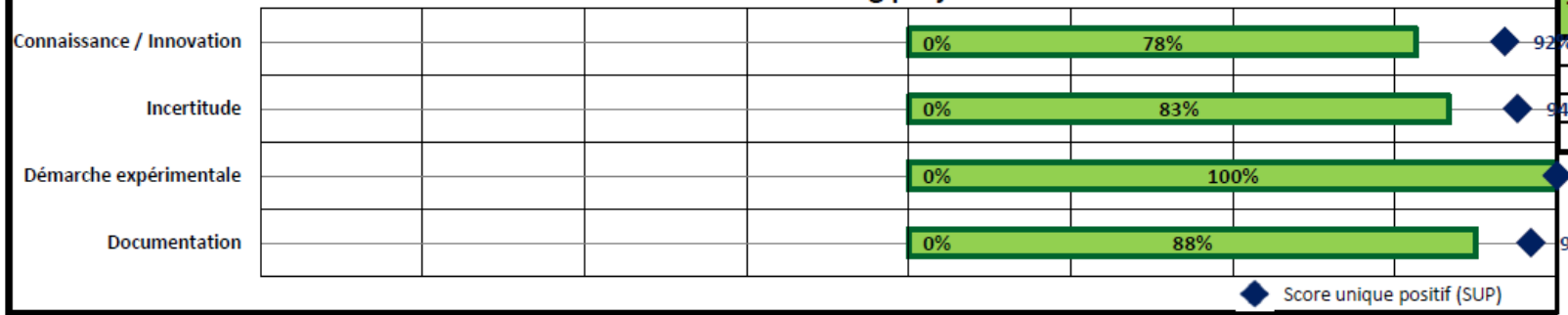
# My Thesis

In the context of French R&D programs, the research tax credit (CIR) covers 30% of all R&D costs up to €100 million, and 5% above this threshold (French Ministry of Higher Education and Research, 2014)

My Thesis

**P1 :**

## Scoring projet CIR




| | ≠M + | ≠M - | ≠M Score unique positif |
|---|---|---|---|
| Connaissance / Innovation | +21,5 | +51,4 | +11 |
| Incertitude | +20,8 | +55,6 | +8,7 |
| Démarche expérimentale | +20,7 | +43,4 | +15,4 |
| Documentation | +54,2 | +32,5 | +21 |

| Déroulement projet ↓ | AVANCEMENT DU PROJET : | En cours - avancé | Taille du projet ↓ |
|---|---|---|---|
| 20-12-13-14-15 | | 60% | Grand |
| **Pré-éligibilité - comparaison à la moyenne :** | Eligible | **Pré-éligibilité Absolue :** | Eligible |

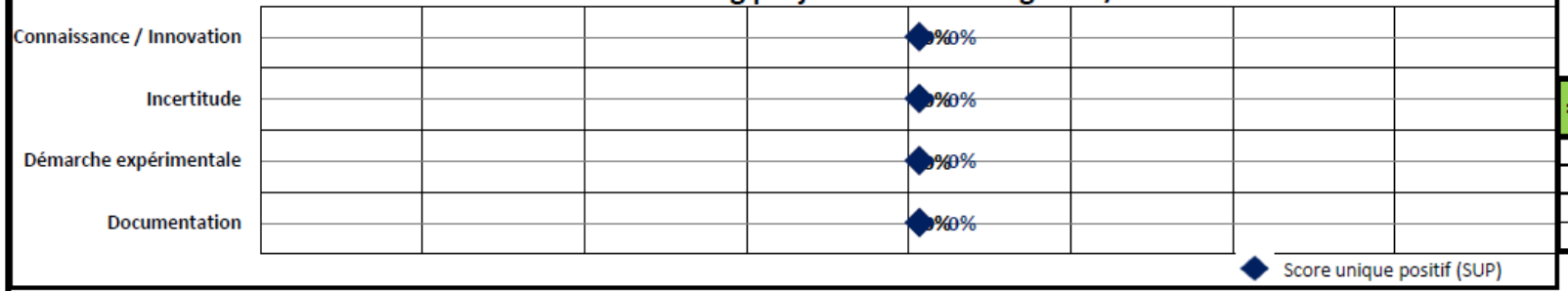
**COMMENTAIRES**

**Analyse Scoring :** Le projet est éligible par comparaison aux moyennes.
**Analyse Questionnaire Qualitatif :** Les réponses qualitatives montrent qu'il y a des risques liés à des incertitudes et des contraintes techniques [redacted]. Cela confirme l'éligibilité du projet.
**Recommandations et conclusion :** Sur la base du questionnaire, le projet est éligible.

**Conclusion éligibilité via analyse par l'expert**

Eligible

## Scoring projet CIR - En émergence / En cours




| | ≠M + | ≠M - | ≠M Score unique positif |
|---|---|---|---|
| Connaissance / Innovation | 0 | 0 | 0,0 |
| Incertitude | 0 | 0 | 0,0 |
| Démarche expérimentale | 0 | 0 | 0,0 |
| Documentation | 0 | 0 | 0,0 |

| | | | |
|---|---|---|---|
| **Pré-éligibilité - comparaison à la moyenne :** | N/A | **Pré-éligibilité Absolue :** | N/A |

***Lien questionnaire :*** [redacted]

My Thesis

| N° Projet | Réponse QUANTI | Taille | Pré-éligibilité /Moyenne Etape 1 | Analyse Quali faite | Conclusion éligibilité |
|---|---|---|---|---|---|
| P1 | Oui | Grand | Précisions nécessaires | Oui | Eligible |
| P2 | Oui | Moyen | Eligible mais doc faible | Oui | Non éligible et doc faible |
| P3 | Oui | Grand | Eligible mais doc faible | Oui | Eligible mais doc faible |
| P4 | Oui | Grand | Eligible mais doc faible | Oui | Non éligible et doc faible |
| P5 | Oui | Moyen | Précisions nécessaires | Oui | Eligible mais suivre les conseils |
| P6 | Oui | Moyen | Précisions nécessaires | Oui | Eligible mais suivre les conseils |
| P7 | Oui | Moyen | Précisions nécessaires | Oui | Eligible mais doc faible |
| P8 | Oui | Moyen | Précisions nécessaires | Oui | Non éligible et doc faible |
| P9 | Oui | Moyen | Eligible | Oui | Eligible |
| P10 | Oui | Grand | Eligible | Oui | Eligible |
| P11 | Oui | Grand | Précisions nécessaires | Oui | Eligible mais doc faible |
| P12 | Oui | Moyen | Précisions nécessaires | Oui | Eligible mais doc faible |
| P13 | Oui | Petit | Eligible mais doc faible | Oui | Eligible mais doc faible |

# Thank you!