



## *PROJET DE FIN D'ÉTUDE*

<p>TITRE DU PROJET AUTRE LIGNE</p>
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En vue de l'obtention des diplomes  
Ingénieur Informatique et Réseaux de l'INSA de Toulouse  
Master Management de l'Innovation de l'IAE de Toulouse

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**Saturday 30<sup>th</sup> August, 2014**

## Executive Summary

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**Special Thanks to**  
**Guido Governatori** *For his help and support throughout this project*

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## I Presenting the context of the Project

### I.1 A brief presentation of NICTA

NICTA is Australia's Information and Communication Technologies centre of excellence.<sup>1</sup> It was created in 2002 within the framework of the Backing Australia's Ability initiative a government plan to foster innovation in Australia. NICTA won the selection process to become Australia's ICT centre of excellence. It is supported and funded by the Australian federal government as well as states governments where laboratories are running (New South Wales, Victoria, Queensland, Australian Capital Territory). Major universities in each of the previously cited states also participate in the funding.

NICTA has 5 laboratories around Australia and employs over 700 people representing the largest research organisation dedicated to ICT in Australia. Since its foundation it has developed many collaboration with the industry especially via joint projects and company creation. NICTA not only focuses on research excellence but is actively looking for business opportunities to capture the value created by its research group. Hence an organisation divided in two main centres [NICTA 2010].

**Research Groups** are aiming to become leaders in their own domain of expertise with a long-term vision for ICT-innovation producing cutting edge results. Each operating in a different areas, they cover a large part of information and communication technologies. They are (in no particular order) :

- **Software Systems** is aiming to provide secure, reliable and safe systems that are proven to achieve “real world” enterprise performance and objectives.
- **Computer Vision** mainly work at a fundamental level in order to provide tools to better analyse the world through 2D videos. Their key areas of research are using the existing mathematics of multiple view geometry with new techniques such as machine learning and optimization.
- **Control and Signal Processing** produces theoretical and algorithmic work leading to innovative methods and systems. The focus is set on two main domain of application decentralized control and estimation for large distributed systems as well as the convergence between computing science and biology.
- **Optimization** is working on a new generation of optimization systems that will be operating in dynamic and noisy environment involving huge amounts of data.
- **Machine Learning** develops new algorithms and technologies to make sense of the skyrocketing amount of data gathered in all areas of human endeavour.
- **Networks** is improving the user experience in current and next generation networked environment by developing new theories, models and methods.

**Business Teams** are focused on exploiting the results of research through active market exploration and strategic surveillance. They provide business support for researchers and therefore cover economic sectors related to the above research groups. They are (in no particular order) :

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<sup>1</sup>Centre of Excellence are a common term used by Australian government to qualify prestigious centre of expertise where researchers collaborate to maintain Australia's international standing in research areas of national priority [Australian Research Council 2013]

- **Broadband and the Digital Economy** promotes new digital technologies and services in all the Australian market : government, SME, enterprises and end-users.
- **Health** develops and fosters the penetration of information technologies into the biological world leading to a better understanding of biological systems and diseases.
- **Infrastructure, Transports and Logistics** provide innovative ICT solutions to radically improve transportation systems and infrastructure networks.
- **Security and Environment** increases the security of critical and sensitive Australian infrastructure and reduces our impact on the environment.

## **I.2 Software System Research Group**

The Business Process Compliance group in which I am working is part of the Software Systems group, one of the six research groups. The interest in business process compliance starts from a simple observation. ICT systems are costly and hard to develop because of the constantly evolving framework of norms and requirement within which they operate leading to less agility and slower development cycles especially in domains with strict legal obligations. Business process compliance is becoming an increasing area of concern in both public and private sectors because of the complexity of regulations and the lack of automated tools. The compliance market is worth tenth of billions of dollars in Australia.[NICTA 2013]

## **II Introducing the project's theoretical framework**

### **II.1 Defeasible Logic**

What is defeasible logic ? Why it was used in this particular case ?

### **II.2 representing norms and business processes**

how do we represent these into a formal framework ? Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

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## **II.3 Business Process Management and Compliance**

What are the challenges of business process management and compliance ?

In which way Business processes foster innovation ?

## **II.4 Tools already developed : Regorus and SPINdle**

What are they and what are they doing ?

Areas of improvement ?

### **III The project's technical and strategical objectives**

#### **III.1 Technical part**

##### **III.1.1 Adding features to Regorus**

##### **III.1.2 Solving and implementing the propagation of the effects problem**

##### **III.1.3 Extending the theoretical model by adding time**

#### **III.2 Strategic part**

##### **III.2.1 A critical summary of the work done**

Historical analysis of what have been done, what failed...

##### **III.2.2 Find a strategy to commercialize Regorus**

Which business model ?

Who are the clients ?

Who are our concurents ?

### **IV My contribution**

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