

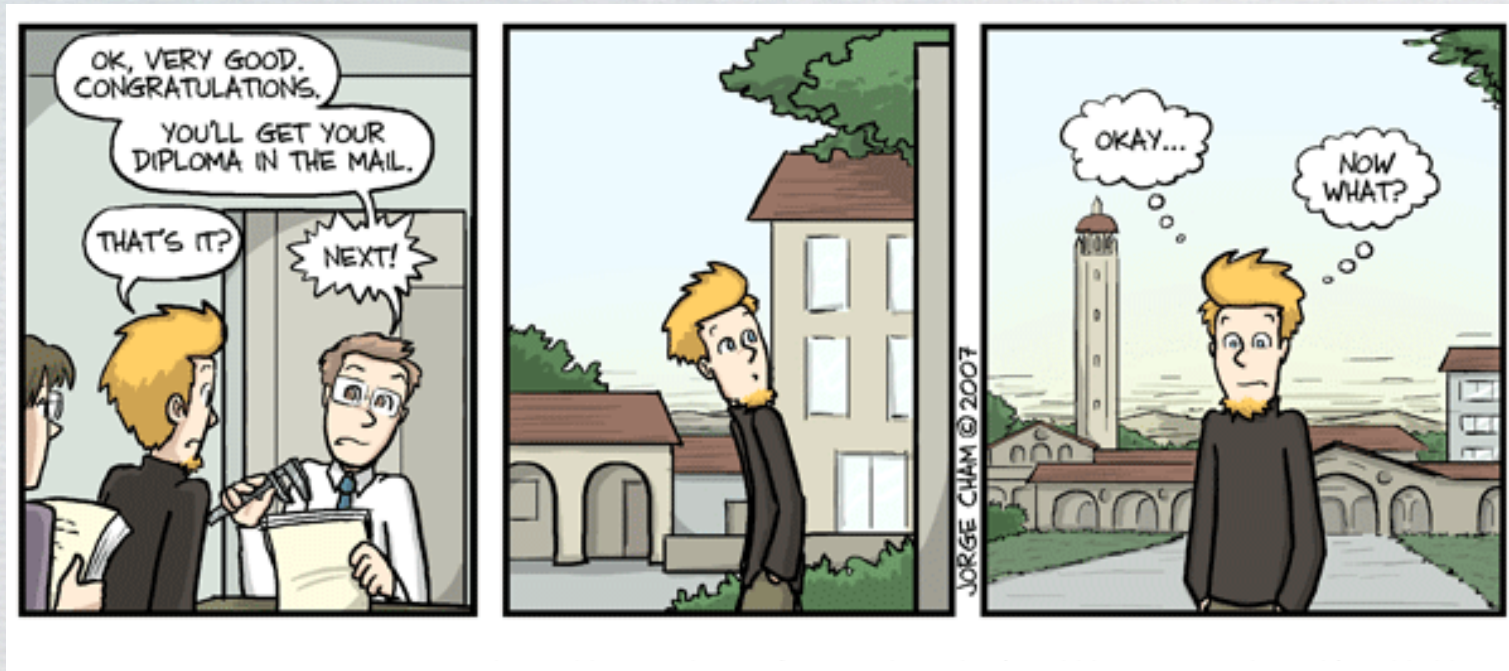


# The CNRS recruitment process





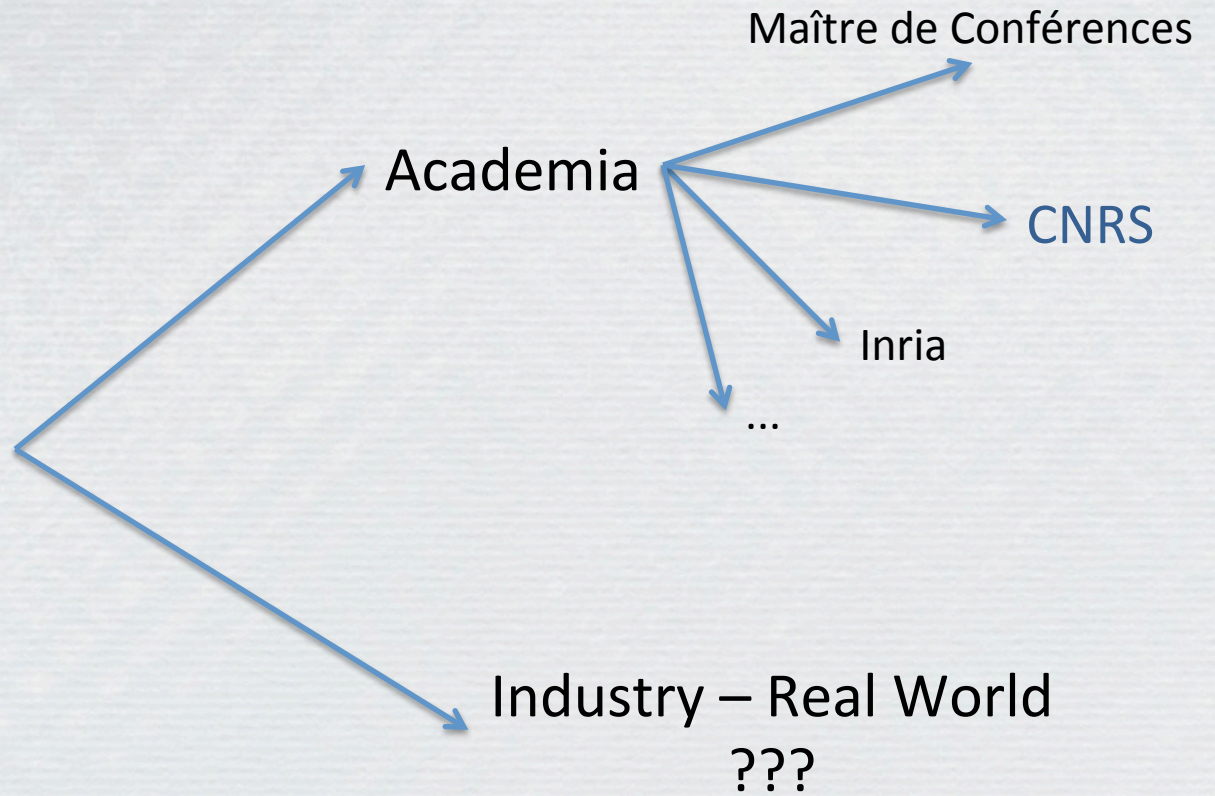
# The End (of the Thesis) is Nigh





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## Thesis





# What is the CNRS?

## ◆ French National Center for Scientific Research

- ▶ Largest fundamental research agency in Europe
- ▶ 26,000 permanent researchers
- ▶ 6,000 temporary staff
- ▶ 47 « sections » of scientific research
  - Section 6: Algorithms, Artificial Intelligence, Operations Research, Telecommunications,...
  - Section 7: Robotics, Signal Processing, Integrated Systems,...
- ▶ International Contest (300 researchers in 2014)
  - Multi-stage selection process
  - « Postes normaux »
  - « Postes flechés »





# Important Dates

◆ **Deadline  $\approx$  5 Jan.**

◆ **Multiple positions per section**

- ▶ 2014: 6 entry-level positions in Section 6, and 6 in Section 7

◆ **3 Milestones**

1. Groundwork:  $\leq D - 2$  months
2. Research Dossier:  $[D - 2 \text{ months}, D - \varepsilon]$
3. Interview:  $[D + \sqrt{\varepsilon}, D + 2 \text{ months}]$

◆ **Language not an issue for non-French**



# Groundwork

## ◆ **Easy to ignore – but crucial**

## ◆ **Test the waters**

- ▶ Who shares similar research interests in France?
  - Supervisors' help cannot be overestimated
  - Mobility strongly encouraged
- ▶ Potential host laboratories
  - Get ready to give lots of talks
  - Opportunity to discuss possibilities and failsafes
  - Host support key for recruitment
- ▶ Check for « Postes Flechés » in your domain



# Research Dossier

## ◆ **Not an easy feat**

- ▶ Summary of 3+ years of hard work in a few pages
- ▶ For non-specialists!

## **1. Research Summary**

- ▶ What you've done

## **2. Research Project**

- ▶ What you want to do

## **3. Integration**

- ▶ With whom you want to do it



# Part 1 : Research Summary

## ◆ **Context, context, context**

- ▶ Committee not comprised by specialists
- ▶ Fact: senior researchers usually have the span of a 3-year old
- ▶ Not writing a paper

## ◆ **Less is More**

- ▶ Techniques, not technical details
- ▶ Techniques, not technical details

*“[proved] by establishing an isometric embedding to a simply connected configuration manifold with quarter-pinched curvature”*

vs.

*“[proved] by using tools and ideas from the differential geometry of spheres”*





# Part 1 : Research Summary

## ◆ **Less is More (cont'd)**

- ▶ What is the unifying theme of your work?
  
- ▶ Highlights of main achievements can go a long way
  - Jury has many dossiers to go through
  - Overwhelming amounts of information
  - Easier to remember what one understands
  
- ▶ Chronological order not always optimal



## Part 2: Research Project

- ◆ What you want to do
- ◆ Why you want to do it
- ◆ How you are going to do it
- ◆ With whom you are going to do it



## Part 2: Research Project

### ◆ **Context, context, context**

- ▶ If proposed research very different from past, explain again
- ▶ How do you build on your expertise?
- ▶ Balance between clarity and technical details

### ◆ **Vision**

- ▶ Short-term goals: things you know how to do but haven't yet done
- ▶ Mid-term goals: things you think you might know how to do
- ▶ Long-term goals: things you wish you knew how to do
- ▶ Added bonus: new ideas often come that way



## Part 3: Integration

### ◆ **Potential Host Laboratories/Teams**

- ▶ Who is working on similar topics?
- ▶ Who can you work with?
- ▶ Are there ongoing collaborations?
- ▶ If research statement relies on work of host, state it clearly – shows genuine interest!



# Post-Submission

1. Dossier submitted (D-day)
2. Admissibility verified (admission à concourir)
3. Preselection (admission à poursuivre)
4. Interview (D + 2 months)



# Interview

## ◆ **10 mins + 5 mins for questions**

- ▶ Time management extremely important
- ▶ Practice makes perfect

## **1. Researcher Profile**

## **2. Research Summary**

## **3. Research Proposal**

## **4. Integration**



# General Information

- ◆ **NOT A CONFERENCE TALK!**
  
- ◆ 20-40 candidates per committee on day of interview
  
- ◆ Usually, at most 1–2 persons will know what you're talking about
  
- ◆ 10 minutes to let the jury know
  1. Who you are
  2. What you've done
  3. What you want to do
  4. How you will do it within the CNRS



# Researcher Profile

## ◆ **Mini version of CV**

- ▶ 1–2 minutes
- ▶ Studies
- ▶ Scientific Qualifications/Awards/Patents/...
- ▶ Collaborations (beyond supervisors)
- ▶ Service





# Research Synopsis

## ◆ **Bird's eye view of accomplishments**

- ▶ 3–4 minutes
- ▶ Remember: committee not comprised by specialists
- ▶ Tools/Techniques/Validation important
- ▶ Depth XOR Breadth – not both!
- ▶ Examples are your friends!



# Research Proposal

## ◆ **Outline proposed research**

- ▶ 3–4 minutes
- ▶ Remember: committee not comprised by specialists

## ◆ **Vision**

- ▶ One-phrase summary
- ▶ Use early, use often

## ◆ **Proposal**

- ▶ If the vision is relevant, then probably shared by many
- ▶ Proposal: novel take
- ▶ Structure: Objectives + breakdown (short-/mid-/long-term)



# Integration

## ◆ **Potential host institutions**

- ▶ 1–2 minutes
- ▶ Successful integration of candidate critical to the CNRS
- ▶ Potential/Existing collaborations
- ▶ Links with current institution



# Questions

## ◆ **You want lots**

- ▶ 5 minutes
- ▶ Chance for jury to get to know you better
- ▶ Questions rarely technical
- ▶ Engage the jury
- ▶ Don't duck hard questions



**GOOD LUCK!**