



**SOC<sup>2</sup>**

**S**ystem **O**n **C**hip

**S**ystèmes embarqués

et **O**bjets **C**onnectés

**GdR SOC<sup>2</sup>**

<http://www.gdr-soc.cnrs.fr/>

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# GdR = a tool from CNRS

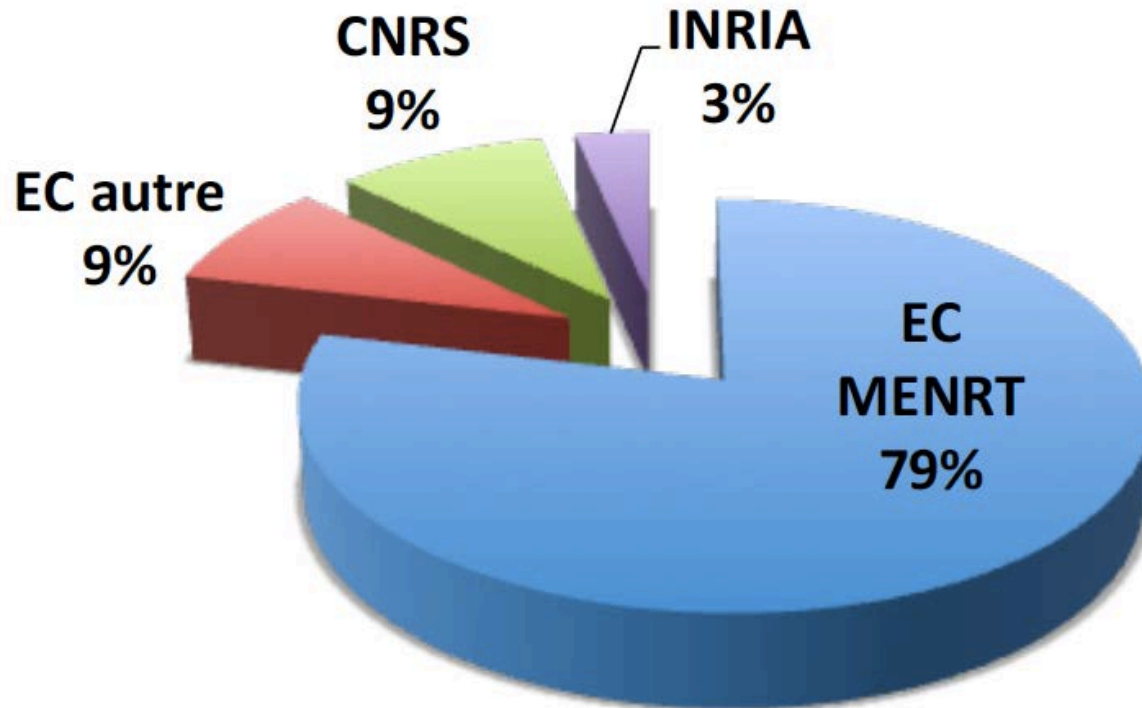
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- GdR = Groupe de Recherche
  - A tool to gather an academic community
  - A national entrypoint for a research domain
  
- SOC<sup>2</sup> = System-On-Chip, Systèmes embarqués, Objets Connectés (System-On-Chip, Embedded Systems and Connected Things)
  - Gathers people from micro-electronics, system design, computer engineering, software engineering

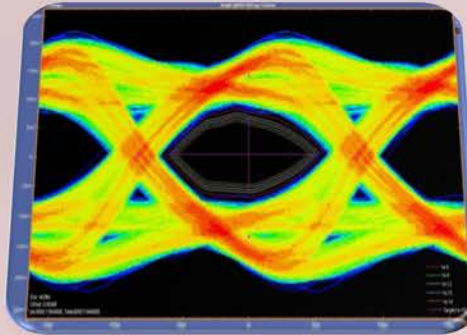
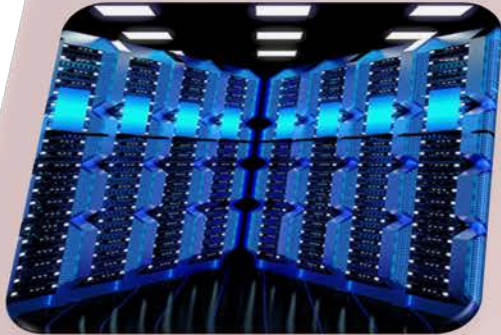
# GdR SOC<sup>2</sup> at a glance

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- 47 research labs and institutes
- >600 people
- Organized in 6 working groups
- 10+ scientific events each year
- A 'great colloquium' at the end of spring



# The working groups



**High performance embedded computing**

**Cyber-physical frontiers and interfaces**

**Security and Integrity of systems**

**Smart things**

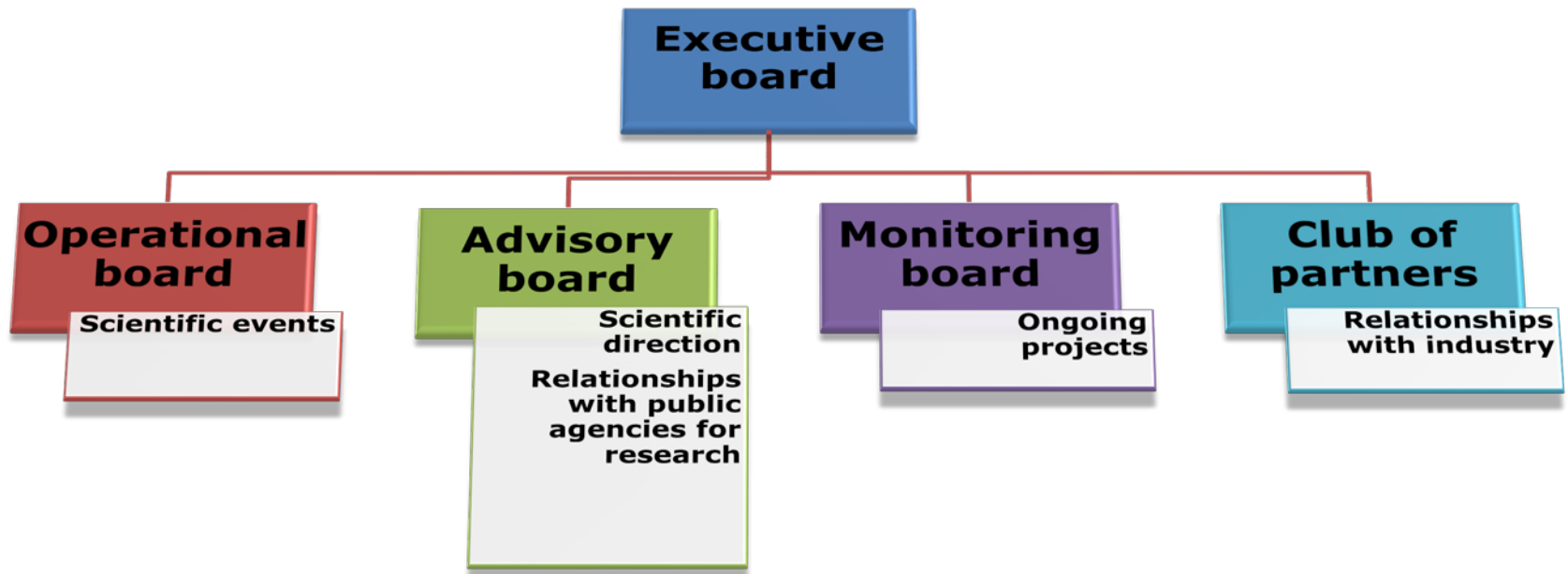
**Technologies for the future**

**Models, Methods, and Tools**



# Structure

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# Club of partners

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- Integrating the needs and views of industry
  - Advice on researches focus, proposal of scientific events
- Service offer toward industry
  - Access to contacts and knowledge base of research groups and graduate schools in our field
  - Access to scientific events organized by SOC<sup>2</sup>
  - Easier access to software tools developed by research groups
  - Broadcast of messages and offers to the SOC<sup>2</sup> community (training, PhD, ...)
- Club membership
  - Contribution for SMEs and large corporations
  - Free for startups
- Agreement is being reviewed by CNRS

# Scientific focus for 2019

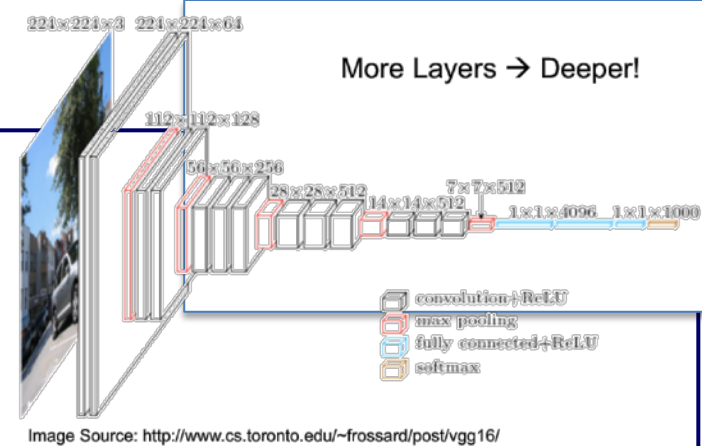
- **SOC<sup>2</sup> and AI**

- Four working directions:

- Component and technologies to enable AI
- Application and architecture: implementation of AI in embedded systems / for embedded systems
- Design tools: how AI can be used to solve design problems
- AI and security

- Planned actions :

- Ongoing work: establishing a knowledge base
- Spring 2019: 2 days workshop ('barcamp')





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