



# Introduction to Minalogic

Labex PRIMES – June 2014 Fabien Boulanger- Dir Tech



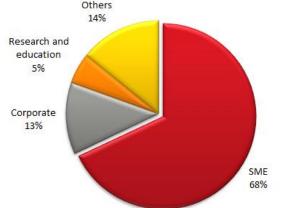
<u>fabien.boulanger@minalogic.com</u> <u>www.minalogic.com</u>

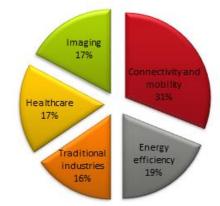
## Minalogic Cluster at a glance

Minalogic is a Global Technology cluster (pole de compétitivité), focused on Micro/nano Electronics and Software,

acting Rhones-Alpes.

- Two main roles:
  - Foster innovation through collaborative market driven R&D projects between SME's, Large Groups & Research labs
  - Provide support to accelerate growth of Innovative SME & start-ups
- incl 145 SMEs
- ▶ 225 members, ▶ 259 projects launched, 250M€ R&D investment/yr **100M€** funding /yr
- Ranked Cluster of Excellence Gold Level since 2012







### **Technologies**

- Micro-nano
  - CMOS / FDSOI
  - MEMS
  - Imaging
  - Large area electronics
  - Fabless
  - Energy harvesting
  - LED / OLED
  - Electronic Design Automation (EDA) tools

- Software
  - Cloud Computing
  - Big Data / Search / Analytics
  - High Performance Computing
  - Simulation / Modelisation
  - Cyber Security / Privacy / Trust
  - Safety
  - Mutimedia Signal Processing
  - Geolocalisation
  - Protocols & Infrastructure for IoT

## Minalogic offering at a glance

### Find your way!

Meet the experts to get

feed-backs vs your startegy & concerns

#### **Network**

Discover and enrich

a world of opportunities!



#### INNOVATION

Fostering innovation through collaboration

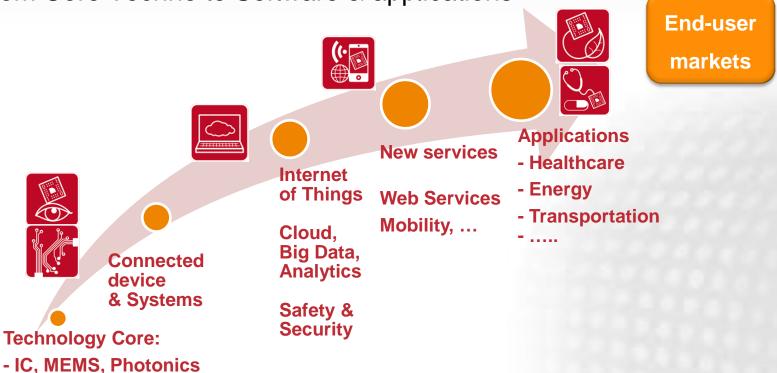
#### **BUSINESS**

**Boost your Growth** 



## A positioning across the whole Value-Chain

From Core Techno to Software & applications



Targeted markets:

- Embedded SW, IPs

- Healthcare:
  - Robot Assisted Surgery
  - Medical Devices & imaging
  - E-Health / Wellness / Silver Economy

- Energy
- Transportation
- ICT

#### **Markets**

- Energy
  - Smart Grid
  - Smart Buildings
  - Smart Cities
- Healthcare
  - Robot Assisted Surgery
  - Medical Devices & imaging
  - E-Health / Wellness / Silver Economy
- Other Industries
  - Smart Factories
  - Traditional industries
  - **.**...

- Transportation
  - Smart roads
  - Connected & Autonomous Vehicles
  - Aerospace & Aeronautics
- ICT
  - Internet of Things
  - IT & datacenters
  - Telecommunications (fixed and mobile)

#### Grenoble: a center of Excellence in ICT

### ...with International recognition!

- France's 2nd-largest hub for ICT research
  - 9 national & 4 international research centers





- ► 40,000 jobs in ICTs, with Global leaders
  - 25 000 jobs in semiconductor
  - 15 000 jobs in Software
- 3,000 ICT graduates per year
  - 29 Engineering programs,600 PhD / yr

Forbes Ranking July 2013 Grenoble, the 5th most inventive city in the World



















# HEALTHCARE MARKETS

Collaboration with LyonBioPole, I-Care, Pole Techno Medicales, Clara, Tasda, Medic@alps & Optique RhoneAlpes.

Project Health2care.

#### Cosirix

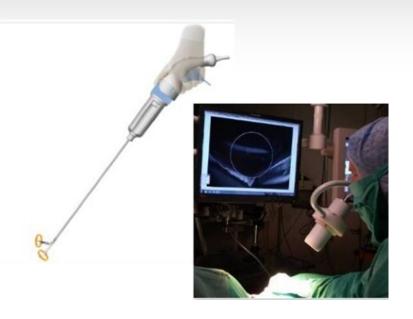


- X-ray flat panel digital detectors for the entire radiology imaging industry
- Very large CMOS circuit : better resolution and speed, for lower patient exposure.

- Duration 48 monthsEffort 70 man.yrBudget 12 M€
- Partners:

Trixell
CEA, Pyxalis, Lyon university,
VS Group

#### Fluoromis II

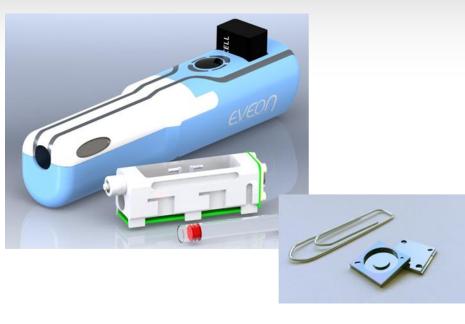


- Duration 36 monthsEffort 26 man.yrBudget 3.2 M€
- Partners:

   Endocontrol
   CEA, Fluoptics, Grenoble
   University

- Fluorescence and Robotic for minimally invasive surgery
- Robotic arm and miniaturized fluorescence imaging technology within an endoscope

### Flumin3



- Drug delivery a MEMS micro-pump for smart injection.
- This MEMS outpasses the performance of state-of-the-art micro-pumps and integrate sensors

- Duration 36 monthsEffort 25 man.yrBudget 4.6 M€
- Partners:

Eveon ARaymond, CEA, Grenoble INP

### Autonom@dom



- Bundle of services for healthcare and autonomy of elder people
- E services

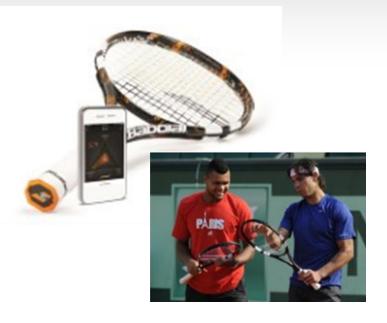
Duration

- 24 months
- Field test with 600 people planned for 2015-2017

Partners:

Conseil Général Isère, Tasda, local hospitals, local companies, local authorities and associations

### Movea technology in Babolat products



DurationEffortBudget

- 45 months 34man.yr 6,3 M€
- Partners: (MAX6 project) <u>Movea (+</u>Babolat), Tronics, thales, CEA

- Babolat connected racket scrutinizes your every tennis move
- Sensors tucked into the handle measure power, impact location, number of strokes, spin, and type of stroke
- Creation of the start-up Movea when the project was launched

