

# CIMES

Creating Integrated MEchanical Systems



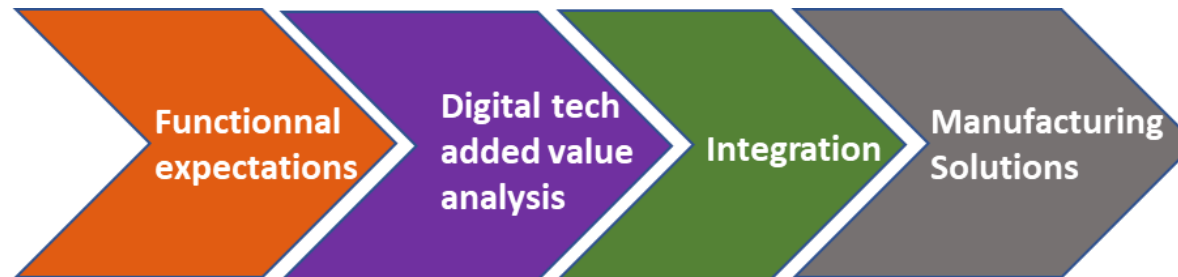


in 2019 Mont-Blanc Industries and ViaMéca merge together and become...



## Ambition and key points

- ❑ CIMES is a french « pôle de compétitivité » (competitiveness cluster = innovation hub) devoted to Mechanical engineering.
- ❑ It brings together :
  - Companies (SMEs and groups),
  - Research centers (public and private ones),
  - Educational establishmentswith the aim of accelerating innovation and enabling the emergence of innovative collaborative projects.
- ❑ Located in Auvergne-Rhône-Alpes and Nouvelle-Aquitaine Regions CIMES represents more than 30% of the French mechanical workforce.



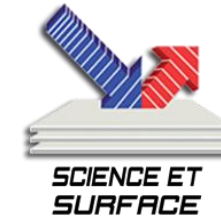
# CIMES

## Core members

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more than 40 innovative solution provider SME's. key players for innovation valuation



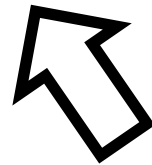






### Regional level

- DOMEX:
- Industry 4.0 and industrial process,
  - Agriculture, Agrifood and Forest.



### National level



### European level

- S3 platforms member:
- Smart sensors for Agrifood,
  - 3D-Printing.

European projects partner :

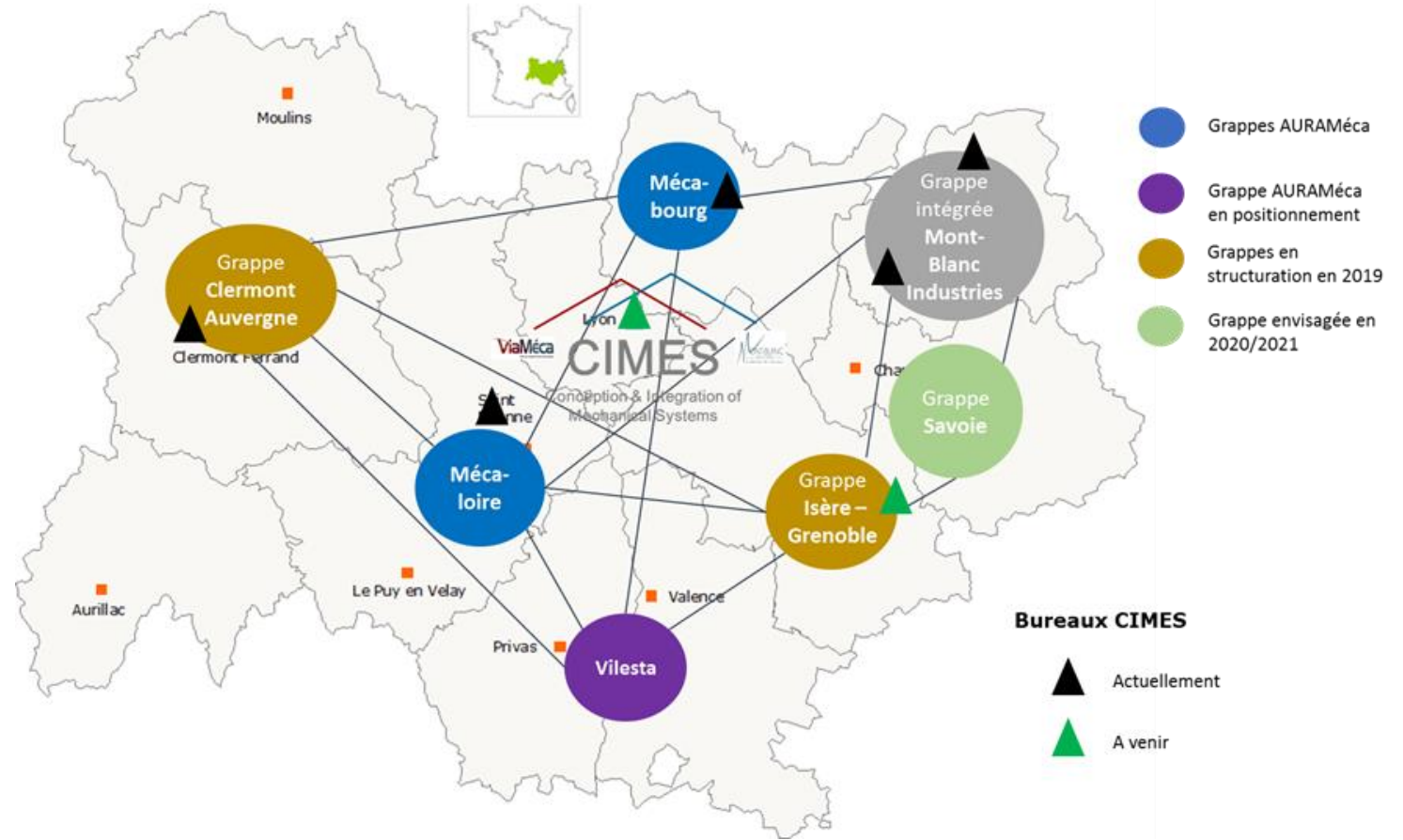
- BIFOCAlps,
- CONNSENSYS,
- S3FOOD,
- DIGIFOF
- BLOCK4COOP
- IOT4INDUSTRY

Un projet territorial, collectif en AURA:

Organisé pour l'innovation collaborative et l'internationalisation avec le label pole de compétitivité

En interaction avec les grands bassins mécaniciens et créant les conditions d'une dynamique d'expression des PME et de mise en synergie des forces de chaque territoire

Se positionnant comme un des premiers hub européen de l'innovation pour l'industrie





Promote and sustain  
Product-Service Systems  
dedicated to productive  
systems of the future



## Engineering for Manufacturing, Materials and Surfaces

- Metallic additive manufacturing
- Sintering, powder metallurgy
- « Subtractive » processes : complex machining – laser processing - finishing operations
- Processes for surface functionalization
- New material/process interactions
- Hybrid processes
- Solutions for process monitoring and device characterization

## Integrated robotic and productive efficiency

- Mechatronic technologies and devices
- Integrated robotic systems
- Digital devices for productive equipment and maintenance
- Multicriteria analysis and driving for productive systems performance
- Industrial companies transformation (digitalization, servitization...)

## Optimised engineering for sustainable systems

- ▼ User-centred engineering
- ▼ Design for manufacturing
- ▼ Optimised engineering, compromise management
- ▼ Pluridisciplinary engineering for complex systems and product-service systems
- ▼ Engineering under uncertainty, risk management
- ▼ Tools, methodology and technology for engineering

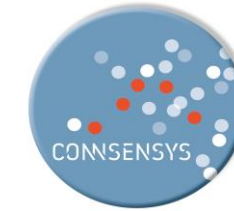
### **BIFOCAlps** (Boosting Innovation in Factory of the Future Value Chain in the Alps)

- Alpinespace InterReg ; closed (2016-2018)



### **CONSENSYS** (Connecting smart sensors systems for food industry)

- COS-CLUSTPARTNERS-2017-3-02 ; COSME (Cluster Partnerships for smart specialisation investments)
- november 2018 - october 2020



### **DigiFoF** (The FoF-Designer: Digital Design Skills for Factories of the Future)

- Erasmus+ KA2 (cooperation and innovation for good practices ; Knowledge Alliances for Higher Education)
- january 2019 – december 2021



### **S3Food** (Smart sensor systems for food safety, quality control and resource efficiency in the food processing industry)

- INNOSUP-01-2018 (cluster facilitated projects for new industrial value-chains)
- april 2019 – march 2022



### **Block4Coop** (Déploiement des blockchain au service de l'industrie 4.0)

- InterReg Sud OE
- 2019-2022

### **IoT4Industry** (Intégration de l'IoT, le Big Data, l'Intelligence Artificielle et la Cybersécurité dans les outils et moyens de production d'entreprises industrielles)

- Innosup
- 2018-2021

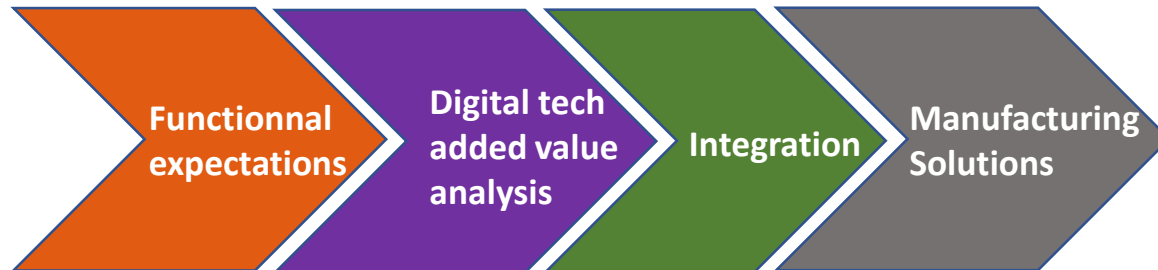


CIMES is a « fully operational » DIH

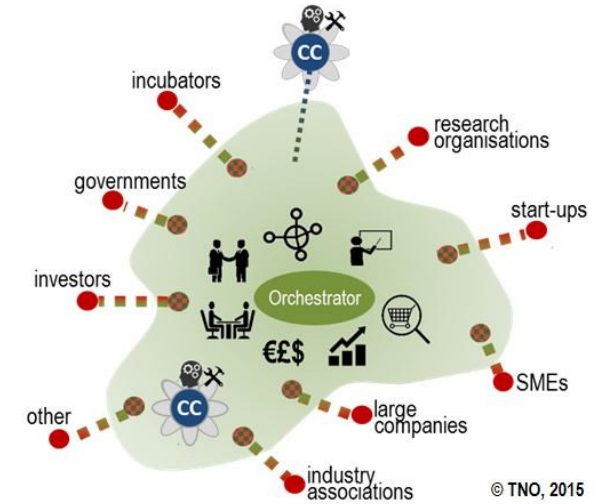
We are not « Deep Tech focused » but « Manufacturing Solution oriented »

DIH focused on manufacturing (or MIH Manufacturing Innovation Hub)

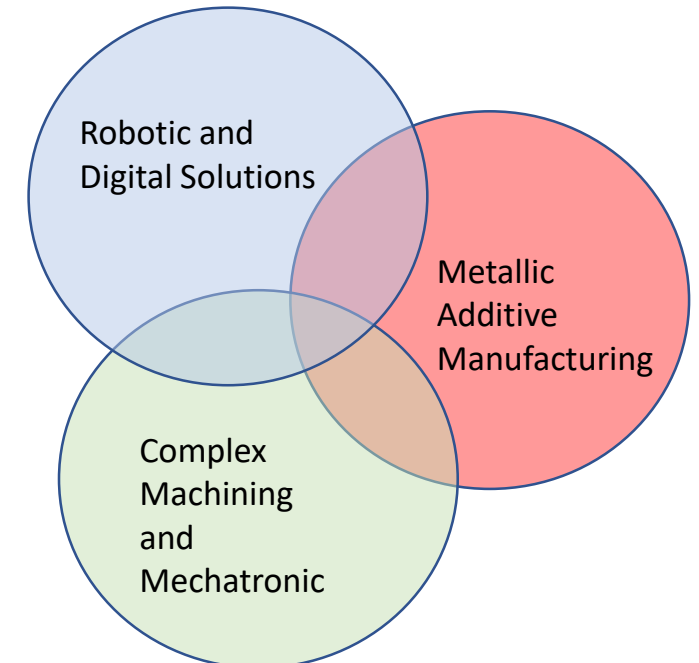
**Performance of the productive system is the issue.  
Digital tech are part of the solution, but not the final objective.**



## CIMES as a DIH



## Strategic layers :



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Thank you for your attention !

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