

ALIVE Strategic Orientation

Engineering and Information Sciences for :
Life, Environment and Medicine

Christophe VIEU, Alive representative

- ✓ NOT ENGINEERING BUT RESEARCH IN ENGINEERING
- ✓ EXPLORATIONS AND SOLUTIONS



Not an Umbrella

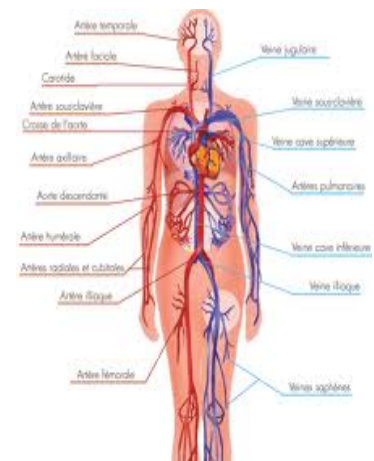
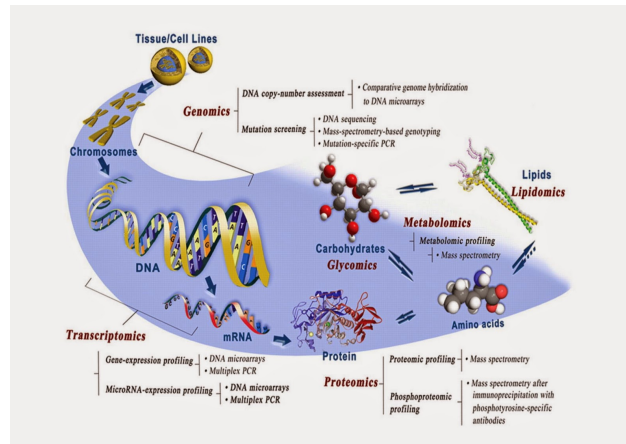
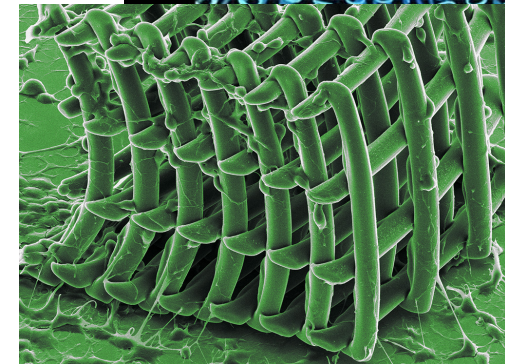


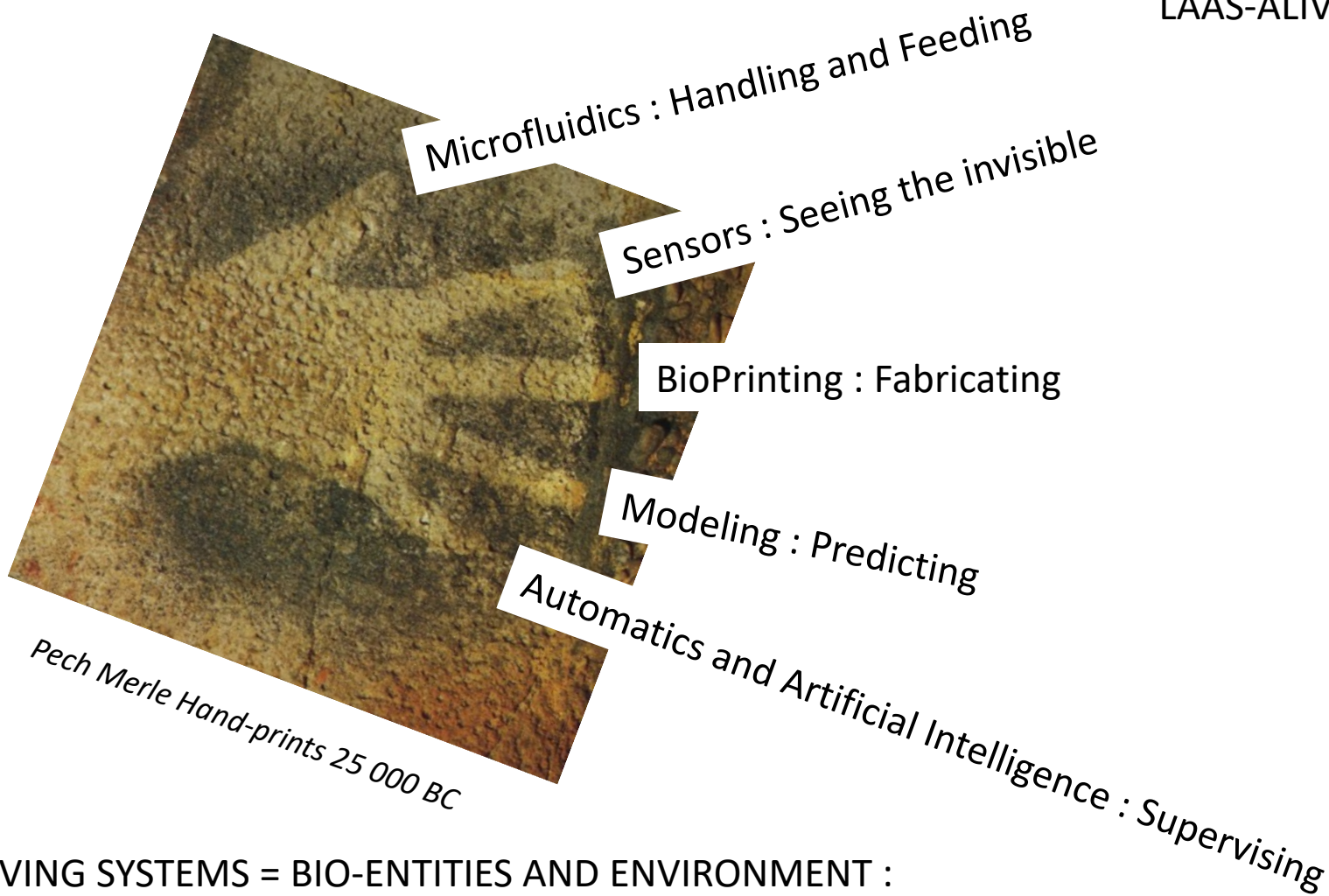
A Tree !

- ✓ Research staff (equivalent full-time):
 - Permanent researchers: 37
 - Engineers/technicians: 15
 - Ph.D./Post Doc: 45
- ✓ Platforms (to be visited)
 - RENATECH Clean Room
 - ALIVE Bio-Characterization platform
 - MULTIFAB Additive (Bio)Fabrication

The Big view : A new Transition in Life Sciences

- Physiological : organs (descriptive and explicative biology)
- Molecular : DNA, proteins, « OMICS »
- **Technological (Symbiosis with artefacts, Data)**

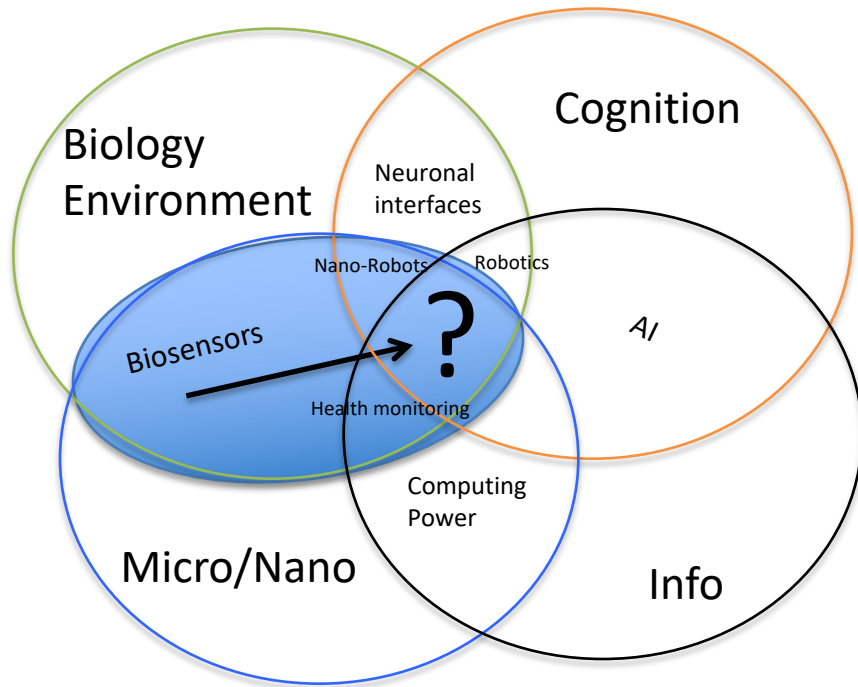




- LIVING SYSTEMS = BIO-ENTITIES AND ENVIRONMENT :
(molecules, cells, tissues, organs, patient, plants, air, soil, water, hospital...)



- ✓ MULTISCALE : Nano in Micro in Macro
- ✓ From In-Vitro to In-Vivo/In-Eco (to Space)
- ✓ From Animal Models to Bio-Artefacts
- ✓ From Lab to Hospitals and Ecosystems
- ✓ In strong Partnership



> Ethical issues
Surpassing our limits \neq No limits

> Not a technology push model but a sense-driven model

✓ A dedicated Building : THE BIOSPHERE



✓ RIFFLE : Research and Innovation Forum For
Life sciences and Environment



NEXT SPEAKERS

