

SMART SPECIALIZATION PLATFORM S3P AGRIFOOD TECHNICAL MEETING – MARCH 28th & 29th, 2017 SEVILLE, SPAIN



Food for Tomorrow | **Cap Aliment**
Recherche, Formation & Innovation en PAYS de la LOIRE



Région

PAYS DE LA LOIRE



VEGETOLYS
PÔLE DE COMPÉTITIVITÉ

La +value végétale



CE PROJET EST COFINANCÉ PAR
LE FONDS EUROPÉEN DE DÉVELOPPEMENT RÉGIONAL



l'esprit grand ouvert





DIGITALIZATION OF AGRICULTURE AND AGRIFOOD IN PAYS DE LA LOIRE

AGRICULTURE & AGRIFOOD IN PAYS DE LA LOIRE

36 900 farmers
25 000 farm employees
47 000 food processing employees
19 billion € turnover
2nd region of France
1st for the label & quality products

**STRENGTHENING THE COMPETITIVENESS
OF AGRICULTURE AND AGRIFOOD**

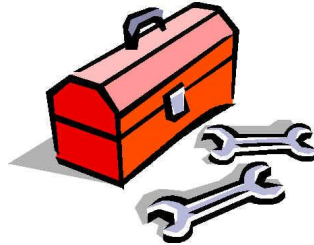
THE DIGITAL ECONOMY IN PAYS DE LA LOIRE

3rd French region for employment
6 200 companies
600 researchers
**Excellence specialties in VR/AR, IOT,
Retail, E-Tourisme and Information
systems**

**CONTRIBUTE TO THE DEVELOPEMENT OF
THE DIGITAL ECONOMY**



RESOURCES IN PAYS DE LA LOIRE



OP ERDF : A121 – Support for collaborative research projects (13M €)

OP EAFRD : A 16.1 – European Innovation Partnership (2,9M €)

AND A DYNAMIC AND HIGH-POTENTIAL ECOSYSTEM

VEGEPOLYS

Vegepolys International Plant Cluster

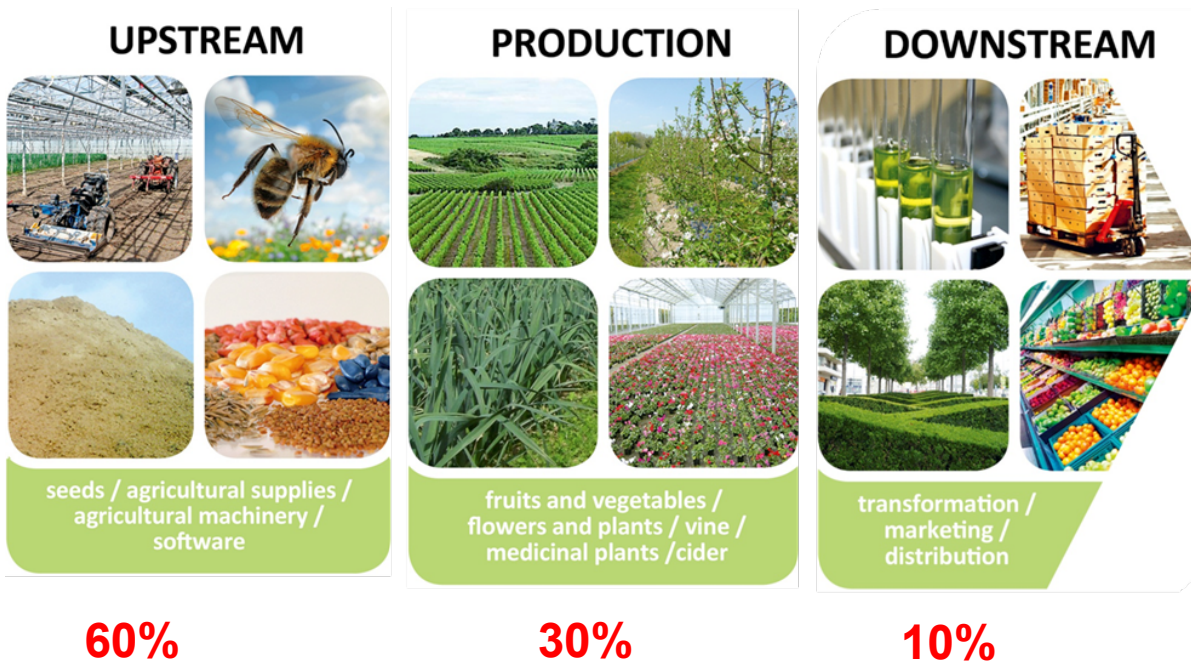


Main Thematics

- Plant breeding
- Plant protection
- New technologies for growing system
- Plants for health, well-being and human environment

TRACEABILITY AND BIG DATA

315
companies
members



➤ Development of high tech tools to process data

- ❖ From the field (drones, satellite imageries, sensors, etc.)
- ❖ From genomics

SMART & COLLABORATIVE INNOVATION



R

World-class
Research Center

&



F

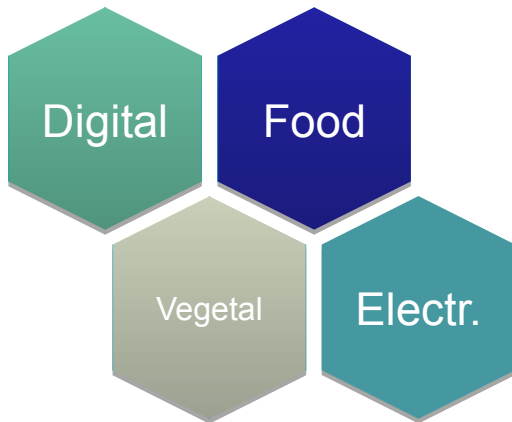
High Level
Education

to



I

Foster
Food Innovation



Food for Tomorrow: Agri-food sector

- ❖ 13 Partners / 350 Scientists / 24 Research Labs
- ❖ 1200 Engineers students
- ❖ 800 Entreprises / 50000 employees
- ❖ New incubator and technology transfer centre

TRACEABILITY AND BIG DATA

Dense Ecosystems for digital, electronic and agri-food sectors



Initiatives
know
how

- Collaborative platform of traceability (Terrena and GS1)
- TRIA: agriculture, food, big data & connected objects
- Spectral technologies / Sensors and data processing
- Embedded electronic systems

En route vers la
3^{ème} RÉVOLUTION
INDUSTRIELLE
ET AGRICOLE
en Pays de la Loire®

Needs

- Better understanding of consumers
- Authenticity (counterfeiting), Traceability and Food Safety
- Enhancing raw material supply chain – risk anticipation
- Coordination between digital, sensor and agri-food actors

A school turned to the Future

Up to 2700 students
(Engineers / Masters /
Agribusiness /
Apprenticeship students

Including 800 distance
learning students

220 staff, 110 academics,
Including **41** researchers
and **50** other research staff
500 occasional teachers

5 Research Departments

UMR BAGAP

Research Unit for landscapes
studies & geography

USC LEVA

Laboratory of crop
Ecophysiology and
AgroEcology

UR URSE

Laboratory for systemic
Analysis of animal husbandry

USC GRAPPE

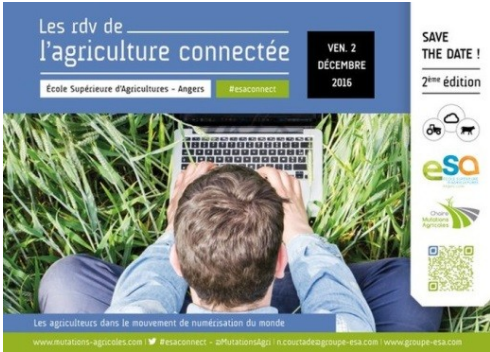
Research Group for Food
sector, products, process,
and environment

39 Research projects/year
50 Industrial projects/year
130 publications/year

USC LARESS

Research Unit in economy and
social sciences

Traceability and big data



From farm to forks



Agriculture
Production



Transformation



Consumers

To improve the
collection, storage,
reliability of the Data



To development
tools for
scientist



To development
tools for the
food sector with
them

l'esprit grand ouvert



Région
PAYS DE LA LOIRE

ESEO PRESENTATION

- **200 Master of Engineering Degree/y**
- **6 research groups:**
 - Sensors, signal and image processing
 - Big Data, services, AI
 - Modern transformation for systems
 - Mathematics, mechanics and materials,
 - Electro magnetic compatibility and microwave
 - Electrical engineering and automatic



Angers



Paris



Dijon

EXAMPLE OF A MULTIDISCIPLINARY PROJECT IN PAYS DE LA LOIRE

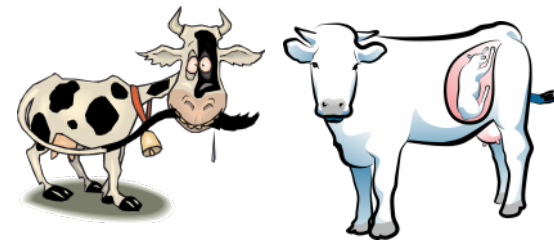
- **VAGABOND:**



Pasture management



Monitoring of health and
production events in
cattle



École Nationale Nantes Atlantique
Vétérinaire, Agroalimentaire et de l'Alimentation

Santé et alimentation au cœur de la vie



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THANK YOU !



Région

PAYS DE LA LOIRE

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VEGEPOLYS
PÔLE DE COMPÉTITIVITÉ

La + value végétale

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UNION EUROPÉENNE

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