

# acta

French network of Technical Institutes in Agriculture

SWG AKIS – BONN Meeting – 30/31 May 2107

Digitization in the Applied Research



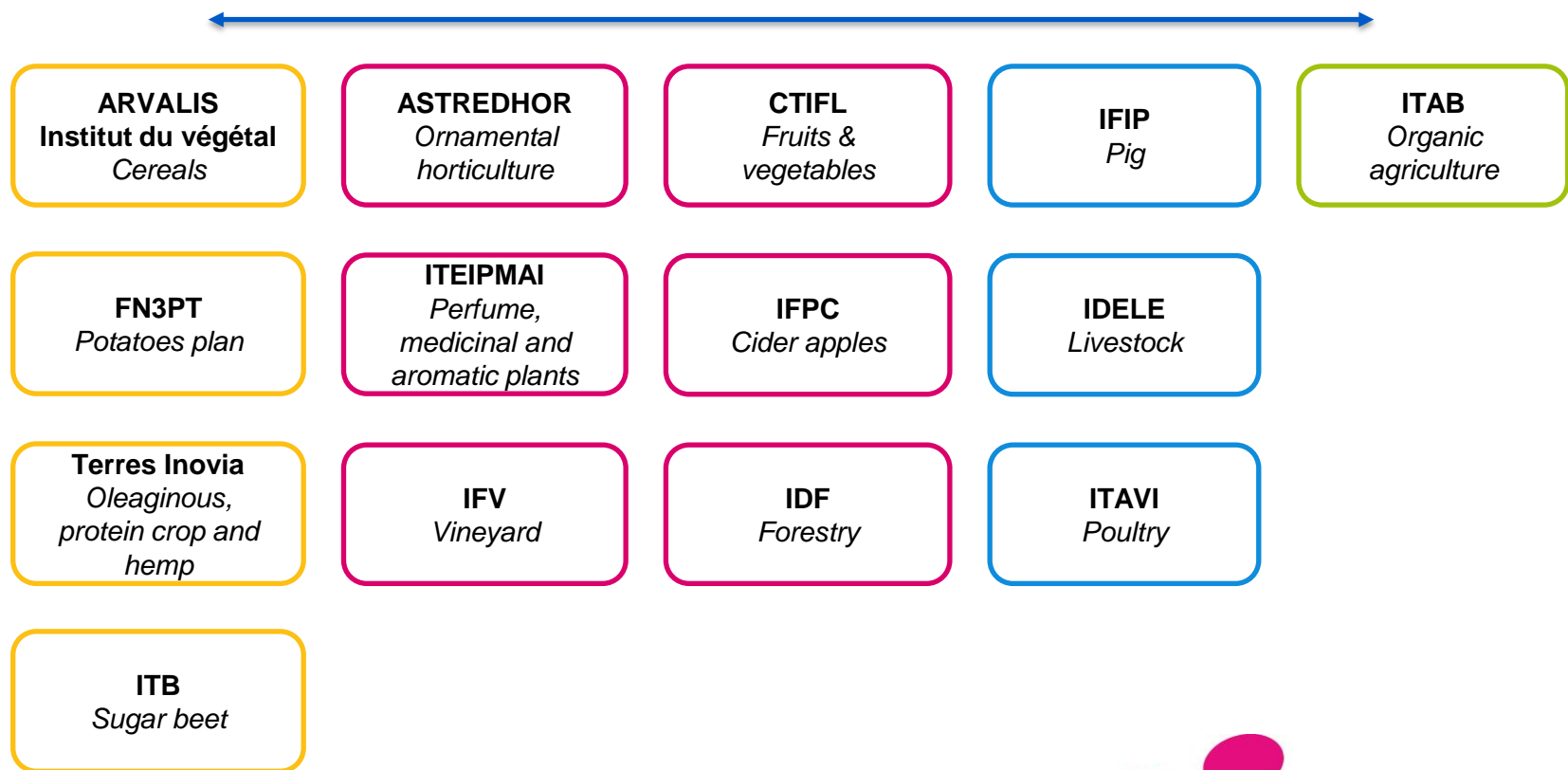
# Who we are : key figures

- **15 agricultural technical institutes (ITA) federated in a network with ACTA**
  - specialized by production sector
  - under professional leadership
  - with general interest missions under the agreement of the ministry of agriculture for the programming period 2014-2020
  - private non-profit research organisation /SMEs
- **1800 employees**
- Including **1445** research and /or development **PhD, engineers** and **technicians**
- **Budget : 180 millions € / year**
- **More than 2000 publications / year**
- **More than 1400 training courses / year**



# Network organisation

ACTA – Head of network – Cross-cutting issues

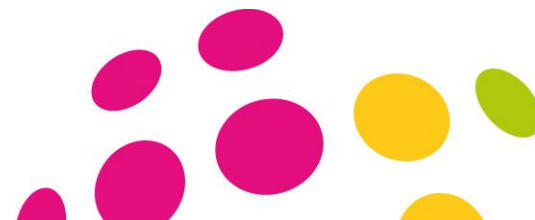


# A wide network across French regions

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180 regional stations



# Missions and scope

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Improve all the aspects of the performance of the French farms at short, mid and long terms


## Missions

- Interface between oriented research and extension : applied / innovative research (Hybrid activities)
- Expertise to throw light on professional and public decisions
- Network management
- Capture Stakeholder needs to be translated in research questions
- Transfer and dissemination of research results

## ACTA

- Network organisation
- Coordination and representation of the network members and activities.
- Applied research and transfer (training, dissemination).
- Cross-cutting issues

## ITAs

- Production sector organisations
  - Applied research for both incremental innovation and breakthrough innovation : production of knowledge, experimentation, expertise, technical assistance, transfer.
  - All aspects of the production chain
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# Digital: serving the agricultural sector

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- **2015** : creation of the digital group in synergy with all the Agricultural Technical Institutes
- **Major challenge for the coming years:** ability to integrate and interpret new data of Agricultural Research and Development



## The API-AGRO project turn to a service company

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- **API AGRO**: a Research & Innovation project initiated by ACTA and the French Technical Institutes from December 2013 to June 2016. (In cooperation with INRA and few other R&I Institutes).
- **Platform to centralize datasets** and manage their visibility, access and valorization in one place.
- API is an acronym for **Applications Programming Interface**. An API is a programming interface that allows you to "plug in" to an application to exchange data



## The API-AGRO project turn to a service company

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- The platform delivers **access to various assets (datasets and API)** improving their visibility (*public, restricted or private*), their accessibility, their interoperability and their reuse while warranting high level of security and traceability.
- **As a food factory**, the platform harvest raw materials (data) to set-up refined products, which can be put together to be valorized directly in a throng of apps
- 2017 - Creation of a **company** focusing on data



# acta white paper

## “to favor the access and valuation of data”

### Open Innovation: Co-build the services by mobilizing new partnerships and skills

- 1. Co-build digital services useful for the agricultural actors**
  - work with the farmers on the services of future
  - more adapted services
- 2. Evaluate the applications in the farms**
  - tests in real conditions
  - objective evaluations of the services
- 3. Open to new partnerships**
  - a strategic monitoring
  - a richer and more open partnership
  - an effective and well-balanced partnership
  - workshops of creativity
- 4. Strengthen the skills to better value the data**
  - an ambitious training plan
  - collaborations with schools
  - recruitments of new talents
  - a mutualisation of the skills

### Mobilize the technologies to fluidize the exchanges of data


- 5. Catalogue the sources of data of interest for agriculture**
  - an inventory of the sources of data
- 6. Favor the interoperability between information systems**
  - data and accessible services by API
  - more integrated services
- 7. Mutualize information systems**
  - successful and ergonomic information systems
  - capitalized data



INNOVATE



FLUIDIZE



REASSURE

### Clarify the questions of property and transparency to reassure the actors

- 8. Establish principles and best practices**
  - a charter on the access and the valuation of the agricultural data
  - services and data connected with full transparency
  - a commitment of the ITA to apply these good practices
- 9. Guarantee the control of the data and establish a trust chain**
  - a passport for the agricultural data
  - transparent and revocable uses
- 10. Encourage the opening of the data of companies**
  - a financial or technical support to open the data

# French “Digifarms” to foster digital innovations

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- “**Digifarm**” project: to develop connected agriculture / IoT
- A **partnership of 4 Technical Institutes** (ARVALIS, IDELE, ITB and Terres Inovia)
- 2 “DigiFarms” as **test connection tools in real conditions**
- 2 new “DigiFarms” to be launched by the end of the year
- The main objective is to **move from concept to application** by using an open research approach between R&I Institutes, farmers, private actors..
- **Start-up & Companies** invited to test new devices, sensors...
- 2 “DigiStations” to be launched soon...

#APPS:



by @SMAG

- Simple and ergonomic **mobile application**: the digital version of the **phytosanitary acta index**
- Essential **tool for the choice and the use of plant health products** commercialized in France
- Realized for farmers, advisors, students and instructors

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