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We  
DELIVER  
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ZLTO

What type of digital solutions  
to support agro-biodiversity  
management?

## ROUND TABLE



## TAVOLA ROTONDA

Quale tipo di soluzioni digitali a  
supporto della gestione  
dell'agrobiodiversità?

CAPSELLA  
COLLECTIVE AWARENESS PLATFORMS FOR ENVIRONMENTALLY-SOUND LAND  
MANAGEMENT BASED ON DATA TECHNOLOGIES AND AGROBIODIVERSITY



# Digital *(r)evolution* ?!

The narrative of *INNOVATION* in agriculture is promoting...

Agriculture 4.0  
Smart Agriculture  
Precision Agriculture  
Digital Agriculture  
Data driven agriculture

- **Technological tools** (sensors, geolocators, drones, other robots, drive assistance, satellite images)
- **Internet of Things** (which allows machines to be constantly connected to the web and to each other)
- **Data technologies** (apps, web devices, specializes software, decision support systems, machine learning, artificial intelligence)

# DIGITIZATION is not INNOVATION if...

- propose vertically developed and hierarchically-based tools
- ignore ecological processes and solutions are mostly based on optimization of production models
- Developed to control and not to support farmers



DIGITISATION is no miracle and it is not synonym of INNOVATION

Innovation lies in the creative process,  
not only in the tool itself



Herbicide spreading or biological control?

# Alternative examples of digital innovation

Focusing on agroecology-based approaches also exist, including

- open source agricultural technology initiatives ([farmhack.net](http://farmhack.net))
- collaborative projects for the creation of technology solutions and innovation by farmers ([l'Atelier paysan](http://l-atelier-paysan.org))

The screenshot shows the Farm Hack website. At the top, there's a navigation bar with links for 'GET STARTED', 'TOOLS', 'CONVERSATIONS', 'CULTURE', 'CALENDAR', 'SHOPS', and 'BLOG'. To the right are 'Login' and 'Register' buttons. Below the navigation is a large section titled 'FARM HACK' with a subtitle 'We are a worldwide community of farmers that build and modify our own tools. We share our hacks online and at meet ups because we become better farmers when we work together.' It includes a link to 'Watch our movie. Get started here.' At the bottom left is a Creative Commons Attribution 4.0 license logo, and at the bottom right is a 'Tool Library' section with a 'Search' bar.

The screenshot shows the L'Atelier Paysan website. At the top, there's a navigation bar with links for 'LE RÉSEAU', 'DES OUTILS PAYSANS', 'ÉQUIPEZ-VOUS', 'LES FORMATIONS', 'ALLER + LOIN', and 'CONTACT'. To the right are language and search buttons. Below the navigation is a large banner with the text 'L'atelier paysan COOPÉRATIVE D'AUTOCONSTRUCTION' and 'Une action collective paysanne'. At the bottom left is a promotional banner for 'LE PRINTEMPS D'IMPACT' on May 18, 19, and 20, 2018, at Ferme de la Basse Cour, 28310 Arnouville (Gommerville). At the bottom right is a call-to-action 'CITOYENS, NOUS SOUTENIR !' with a small image of a person wearing a hard hat.

# **Co-innovation**

**How do we turn the innovation potential of the digital hype to actual support to sustainable farming ad food systems?**

# **Participation**

# **User-tailored solutions**

# **ROUND TABLE**

# **TAVOLA ROTONDA**

- **Real cases of apps co-creation**

Background and key features interconnecting DIGITAL REVOLUTION and AGROECOLOGICAL INNOVATION

- **Any other example useful for the discussion?!**

Input from the participants

- **Group work**

Input from the participants

# GROUP WORK

- Which are the **main challenges of currently available ICT tools** for being useful for agroecological farming?
- Which **specific features and improvements to be included in future ICT tools** supporting agroecological farming practices?
- Which **new features and improvements need to be considered in an ICT tool for making consumers aware** of the *story* behind the product (how it is produced, the philosophy behind, farmer's ideology...)?

NOTE: You can use CAPSELLA apps as example but you but do not need to keep focus only on those.

# LAVORO DI GRUPPO

- Quali sono i **limiti degli attuali strumenti digitali** perchè si possano dire effettivamente utili per l'agricoltura agroecologica?
- Quali **nuovi aspetti e miglioramenti possono essere inclusi negli strumenti digitali** per poter supportare le pratiche agricole agroecologiche?
- Quali **nuovi aspetti e miglioramenti devono essere inclusi negli strumenti digitali per rendere i cittadini consapevoli** e coinvolti nella “storia”, rete di relazioni e pratiche dietro ai prodotti agricoli (come avviene la produzione, la filosofia che supporta le pratiche utilizzate, I principi dell'agricoltore)?

NOTE: Usate le app di CAPSELLA come esempio ma non è necessario focalizzare solo su queste nella discussione

# **OUTPUT GROUP WORK**

**RISULTATO LAVORO DI GRUPPO**