



rem **TEC**

OUTLOOK
AGROVOLTAICO®
IN POWER &
FOOD
PRODUCTION

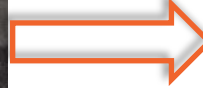
GREENPOWER **TO THE PEOPLE**



AGRICULTURE EVOLUTION



1950



2020



ENERGY TRANSITION IN AGRICULTURE

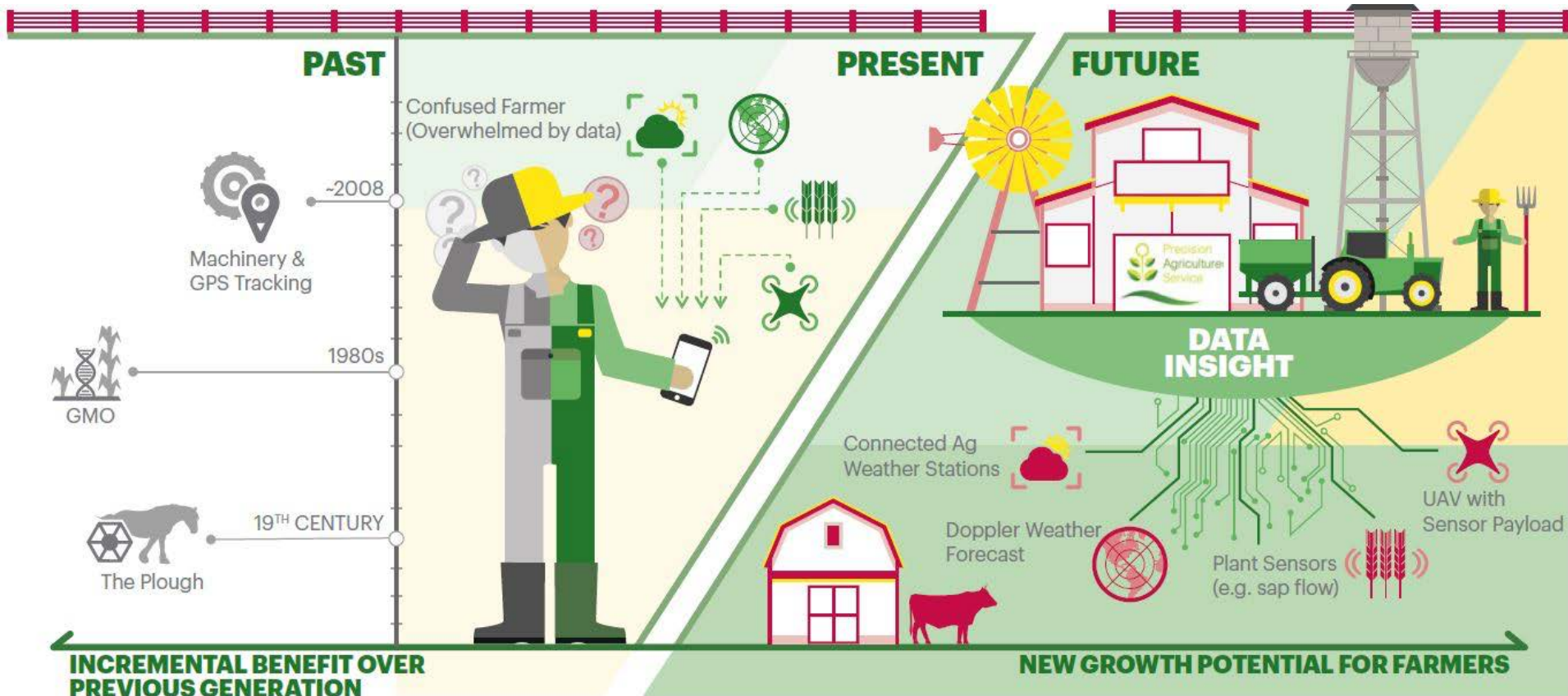


In France (2014) 3,8 mio t equiv. oil:

- Automotive (tractor, land machines, etc...) 62%
- Greenhouses: 11%
- Livestock: ca 11%

→ 73 % of today's energy will pass from oil to electric power

PRECISION FARMING



(Accenture Digital 2017)

Improvements:

- Milk production by 18 %
- Wheat by ca 10%
- Etc...

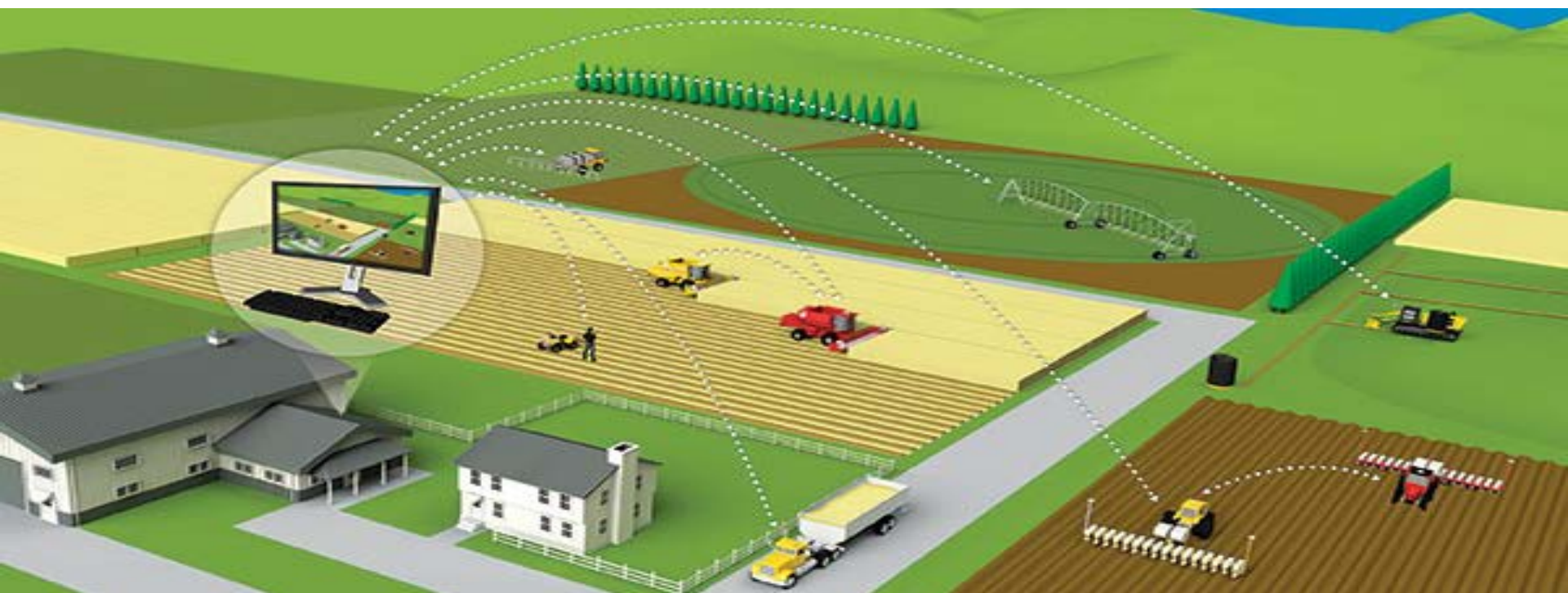
Introduction of:

- Algorithms
- Data mining
- Machine learning

ALGORITHM FOR AGRICULTURE



- ❖ Collect data about culture & farming;
- ❖ Transmit algorithm to improve information;
- ❖ Improve management & strategic decisions;
- ❖ Maximizing productivity & competitiveness in market.



LIVESTOCK FARMING 4.0

Technologies in development:

- Neck measurements
- Fertility management
- Cattle management
- Calving management



Potential gain:

- Investment for 100 cattle ca. 5000 €/5 years
 - Revenue ca. 23000 €/year
- Gain ca. 22000 €/year

Higher electric power consumption by

- Transfer from oil to electric power → average increase of minimum 2 times actual electric power consumption
- Data and connected agriculture → higher production by precision and/ or connected farming through higher use of telecom (x 3 between 2015 – 2020)

AGROVOLTAICO® AS SOLUTION



Added value of Agrovoltaiico® for farmers

- Most efficient power production system of the market
- Less power costs by self consumption
- Shadow generates micro climate under modules
- Water savings by 20-30%
- Optimized fertilizer use by precision farming

Cost reduction

Efficiency improvement

Agrovoltaiico® allows to produce more for less costs

ENERGY
AND
AGRICULTURE:
AGROVOLTAICO®



GREEN POWER TO THE PEOPLE



THANK YOU FOR YOUR ATTENTION

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CONSEQUENCE OF PRECISION FARMING



Internet and telecom at the benefit of agriculture:

- ❖ Cost reduction
- ❖ Improvement of production efficiency
- ❖ Improving environmental customer requests
- ❖ Transforming agroindustry to 4.0



Digital & smart agriculture

workshop



The Smart Agriculture Market for Telcos

