
remTEC
OUTLOOK
AGROVOLTAICO®
IN POWER &
FOOD
PRODUCTION
GREENPOWERTOTHEPEOPLE

AGRICULTURE EVOLUTION

1950

2020

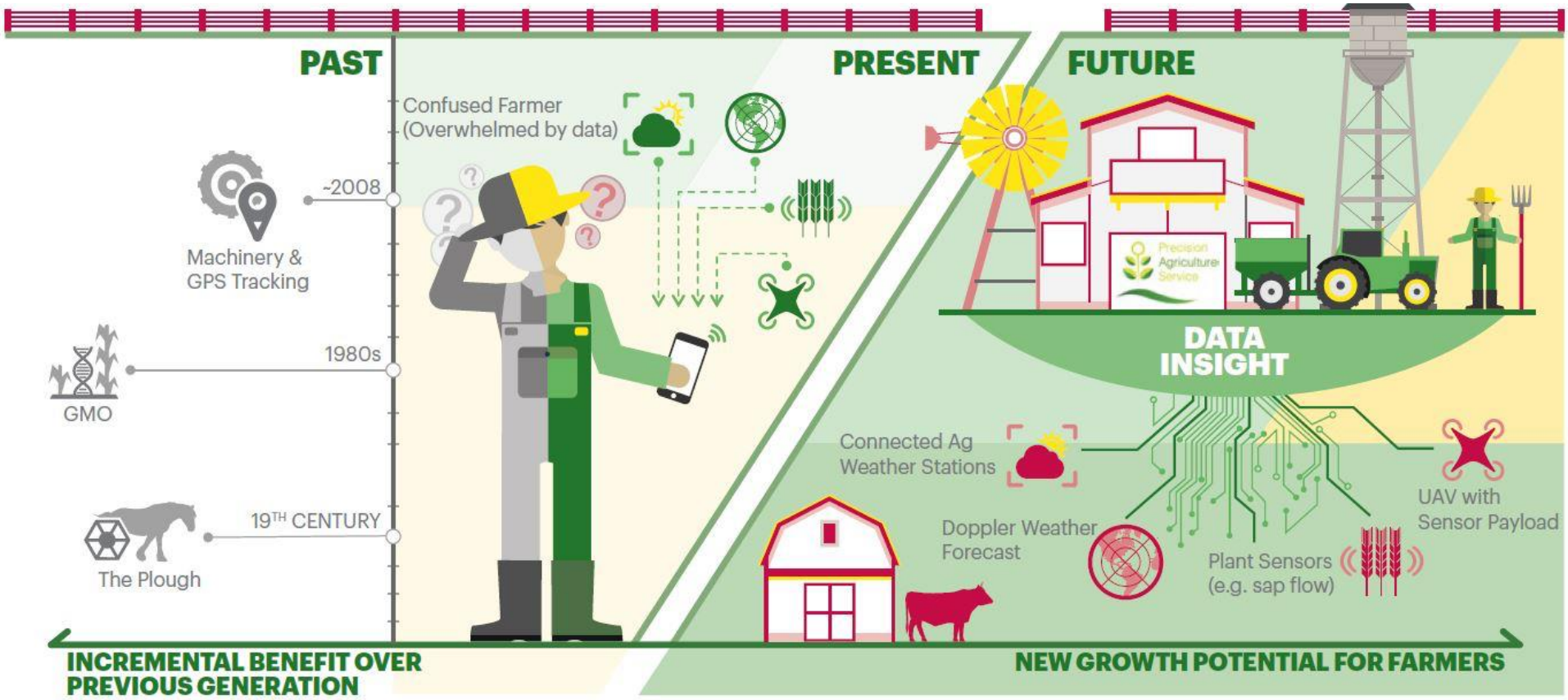
ENERGY TRANSITION IN AGRICULTURE

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:

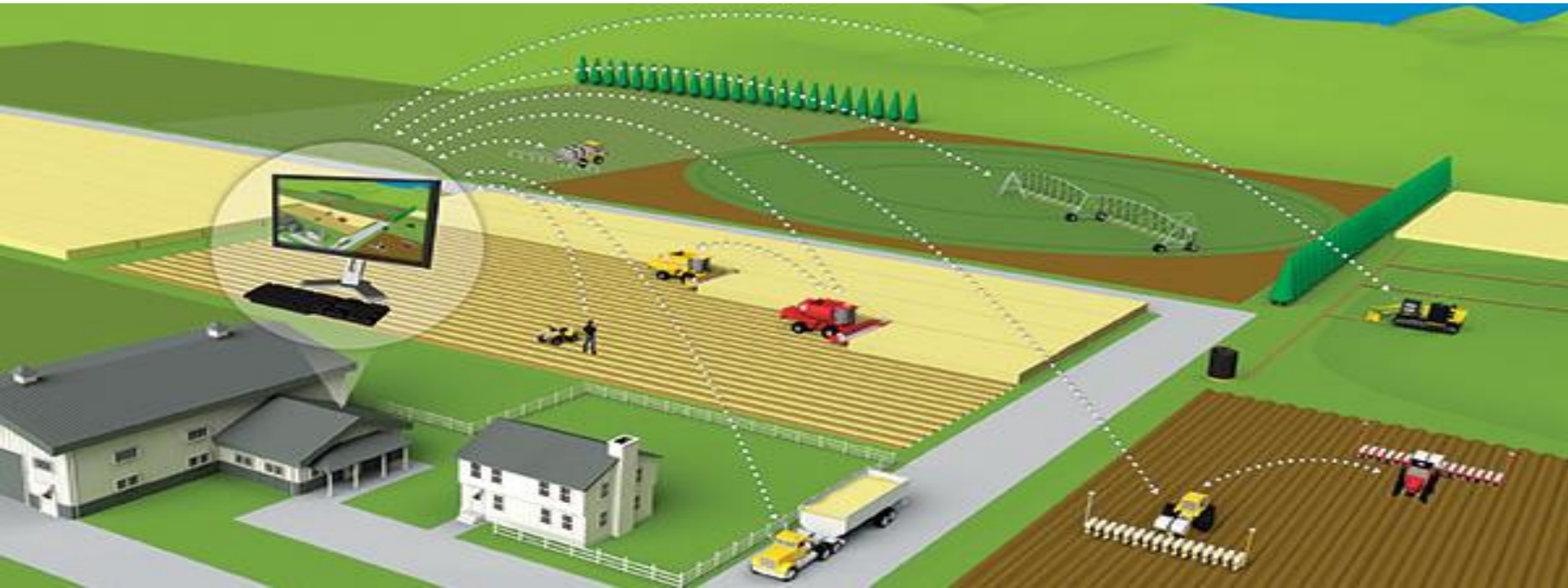
- **Milk production by 18 %**
- **Wheat by ca 10%**
- **Etc…**

Introduction of:

- Algorithms
- Data mining
- Machine learning

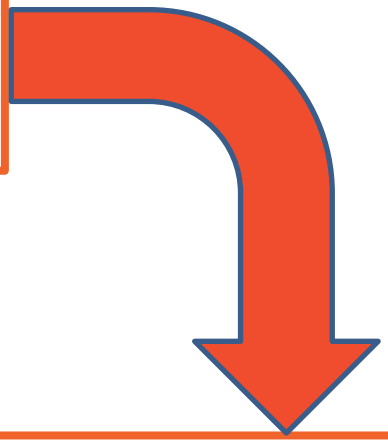
ALGORITM FOR AGRICULTURE

- Collect data about culture & farming;
- Transmit algoritm to improve information;
- Improve management & strategic decisions;
- Maximizing productivity & competivity 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

UP COMING TARGETS

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 Agrovoltaico® 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

Agrovoltaico® allows to produce more for less costs

THANK YOU FOR YOUR ATTENTION

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