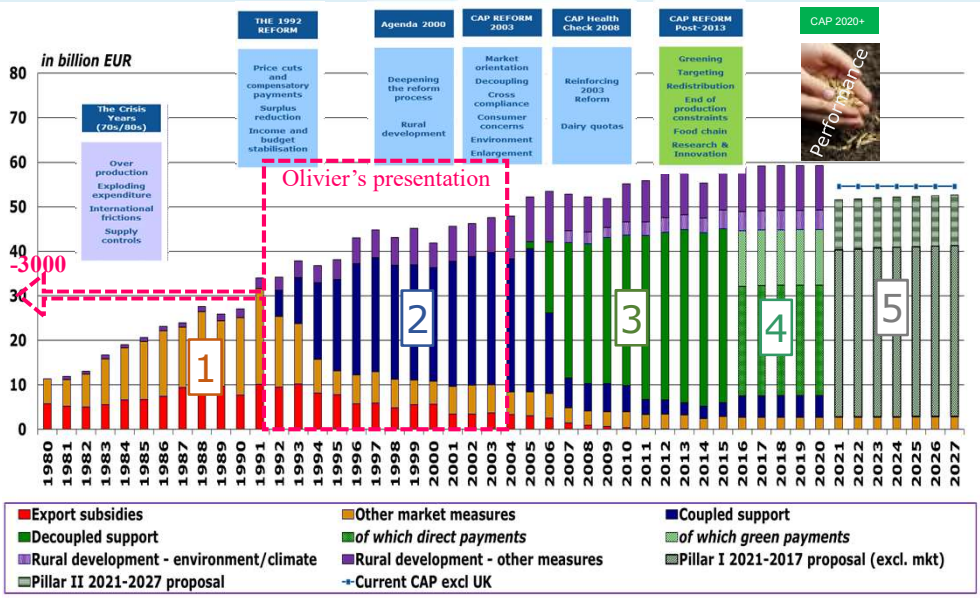
25th
MARS
Annual
Conference
Prague 2019
26-28 November
TOP HOTEL Praha & Congress Centre
Joint Research Center
The European Commission's
science and knowledge service
SZIF
The State Agricultural
Intervention Fund
European
Commission

The European Commission's science and knowledge service
Joint Research Centre
… After early years and those to come …
Philippe LOUDJANI
JRC D5
25th MARS Annual Conference, Prague, CZ, November 26-28 2019
European
Commission

Procedures & checks evolve with CAP reforms



Main parameter
Mail tool

1. Quantity
   Yields model
2. Area & crop
   OTSC
3. Area
   LPIS
4. Area & practice
   GSAA
5. Practices?
   Sentinel1/2

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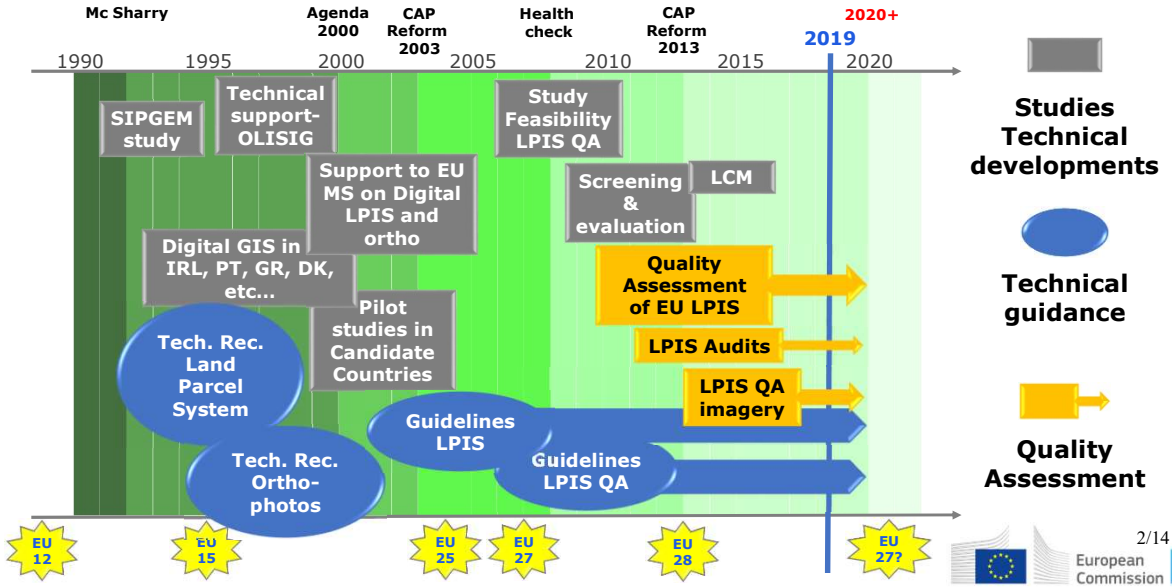
Developments, implementation by main elements identified e.g. LPIS (but thinking Integrated System)



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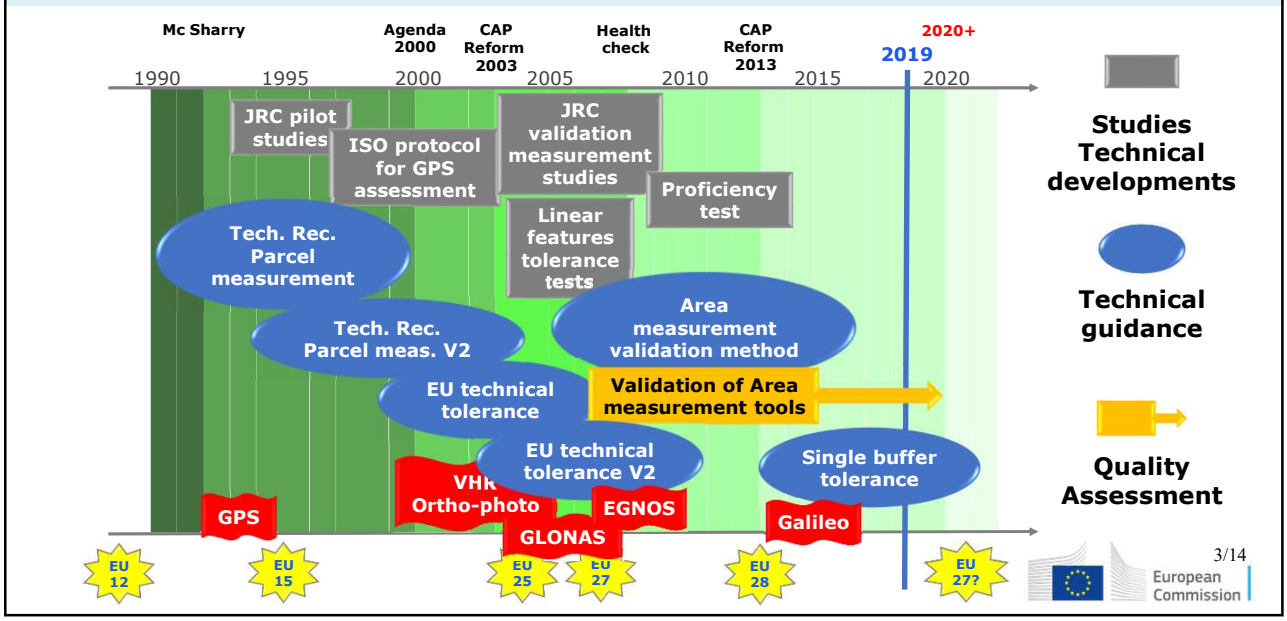
Developments, implementation by main elements identified e.g. GNSS field measurements (but thinking Integrated System)



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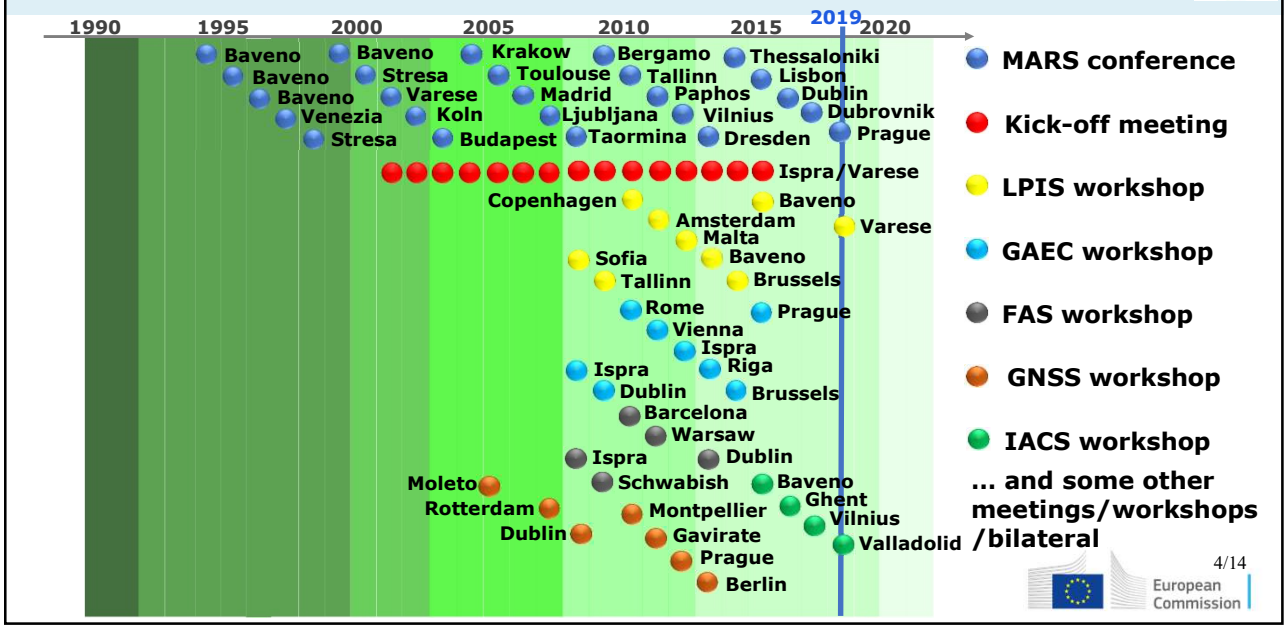
Workshops and conferences to support developments



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Proceedings – Technical guidance - Wikicap

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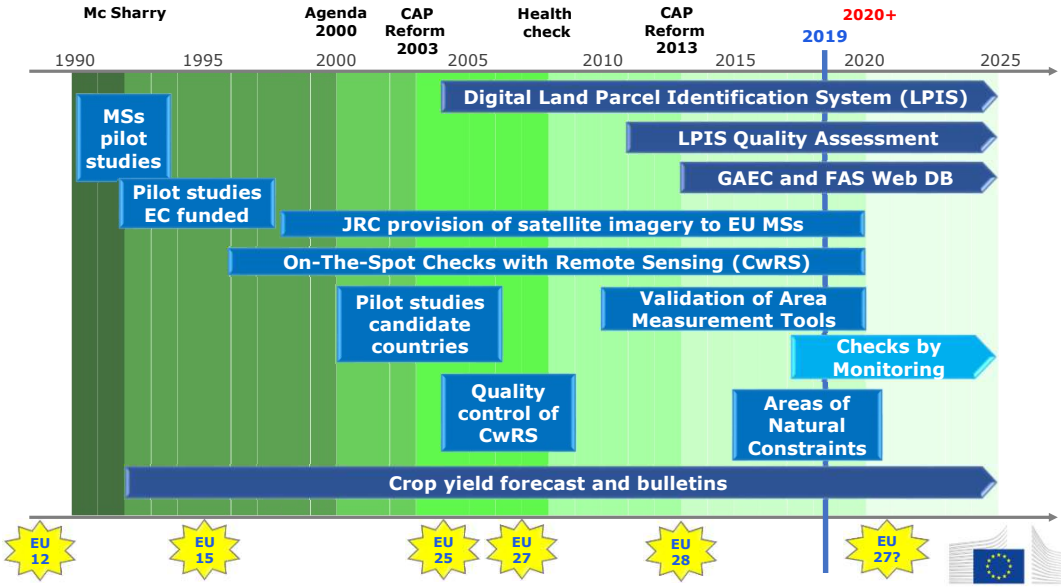
History of developments to support the CAP



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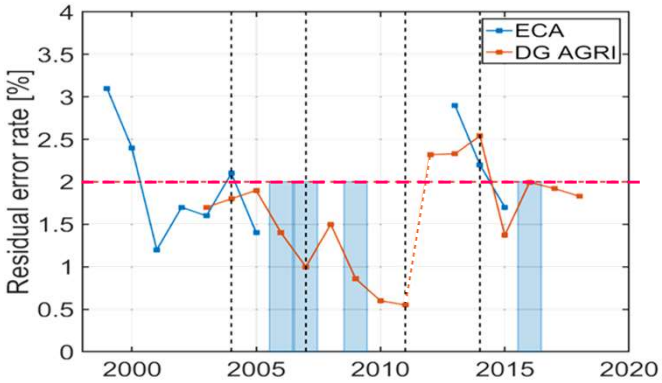
The evidence of systems effectiveness: Residual error <2%



Sources:

- EC – DG AGRI annual activity reports and ECA annual activity reports
  : reported by ECA (European Court of Auditors) as below 2%
- 1999-2011: area error reported by MS
- 2012-2018: area error reported by MS then corrected for reliability by DG AGRI

Gradually lower financial error rates

- In part due to technical developments:

- more effective OTCS
- better crosschecks (LPIS)
- better applications (GSAA)
- prevention (CbM)

- In part due to that community.

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Next CAP reform: challenges and technical opportunities

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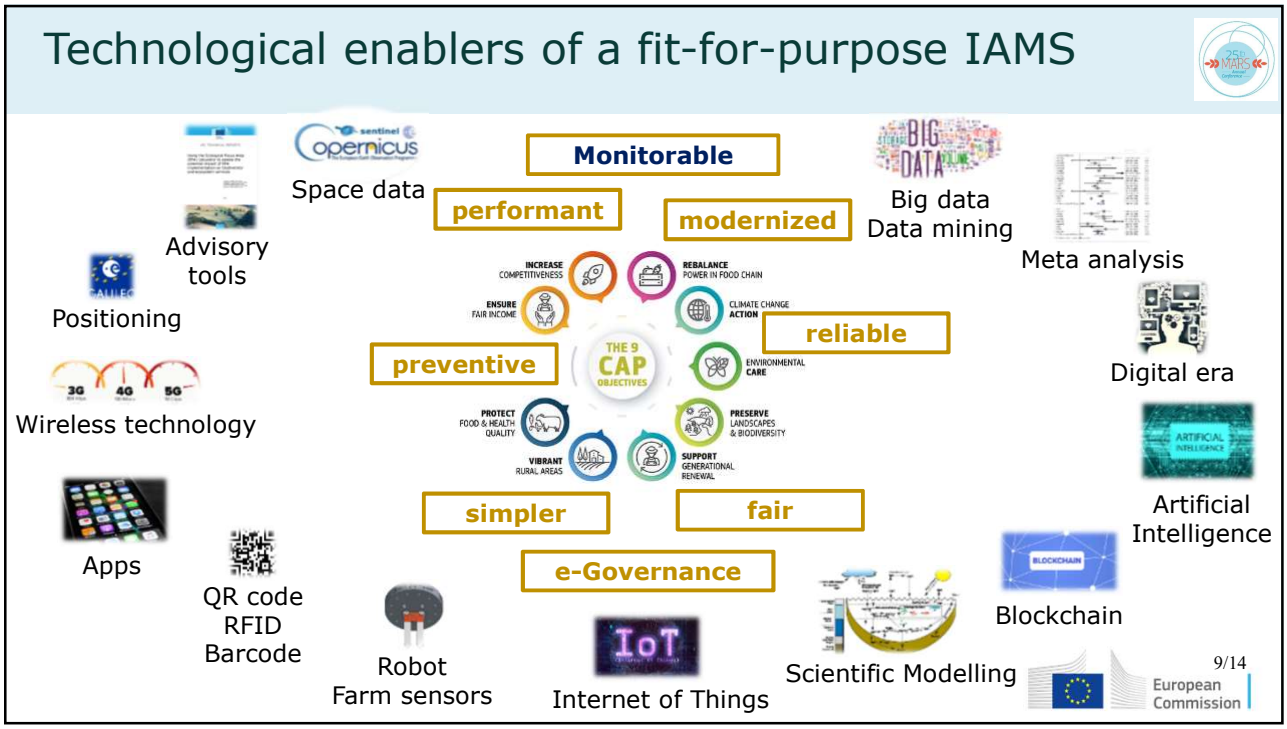
Technological enablers of a fit-for-purpose IAMS
Space data
Advisory tools
Positioning
Wireless technology
Apps
QR code
RFID
Barcode
Robot
Farm sensors
Internet of Things
Scientific Modelling
Blockchain
Artificial Intelligence
Digital era
Meta analysis
Big data
Data mining
Monitorable
performant
modernized
reliable
preventive
simpler
fair
e-Governance
THE 9 CAP OBJECTIVES
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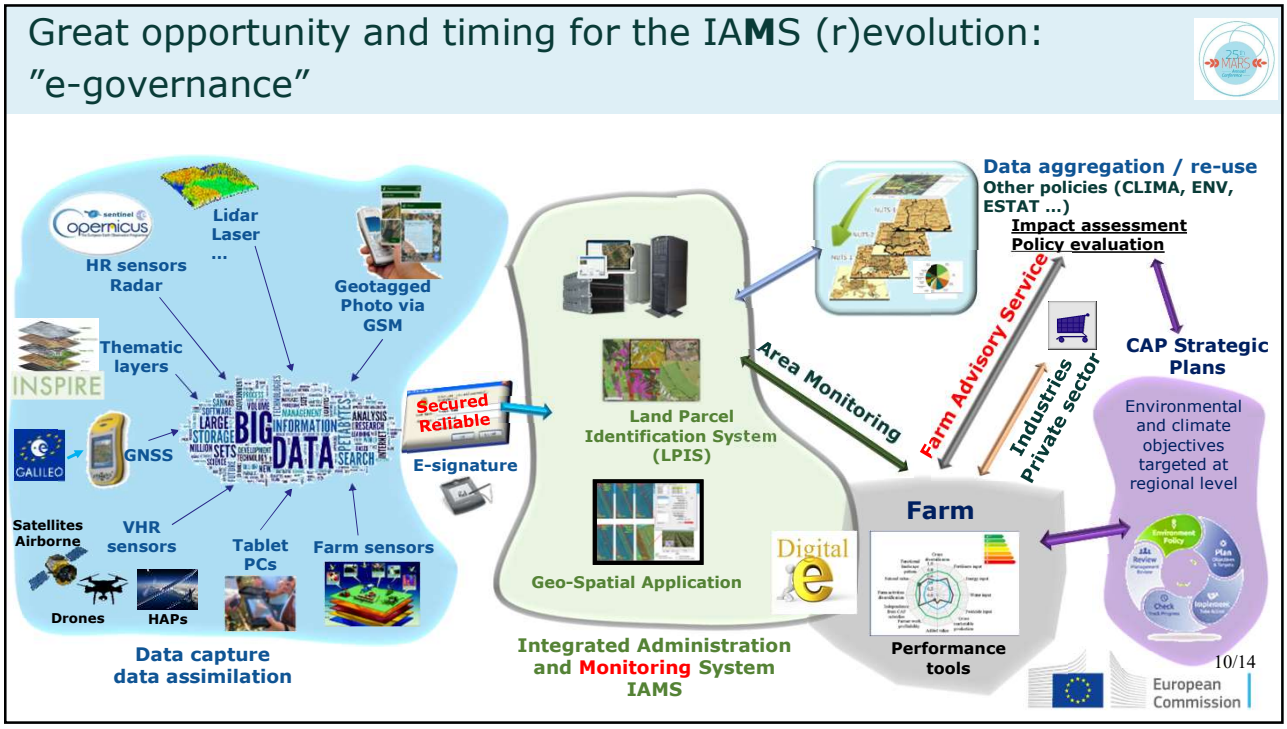
Great opportunity and timing for the IAMS (r)evolution: "e-governance"
HR sensors
Radar
Lidar
Laser
...
Geotagged
Photo via
GSM
Thematic
layers
INSPIRE
GNSS
Satellites
Airborne
VHR
sensors
Tablet
PCs
Farm sensors
Drones
HAPs
Data capture
data assimilation
Secured
Reliable
E-signature
Land Parcel
Identification System
(LPIS)
Geo-Spatial Application
Integrated Administration
and Monitoring System
IAMS
Area Monitoring
Data aggregation / re-use
Other policies (CLIMA, ENV, ESTAT ...)
Impact assessment
Policy evaluation
Farm Advisory Service
Industries
Private sector
CAP Strategic
Plans
Environmental
and climate
objectives
targeted at
regional level
Farm
Digital
Performance
tools
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Elements to develop and implement

Strategic Plans
progress and evaluations

Performance Monitoring and Evaluation Framework
Baselines and Impact, Result and Output Indicators

Assurance
Area Monitoring System

Policy performance
Multi-annual and annual assessments

Common Monitoring and Evaluation Framework
Land Parcel Identification System QA/QC

Monitoring Agricultural Resources
Yield and production forecasts (etc.)

2019 2020 2021 2022 2023 2024 2025 2026 2027

1990… 25+ years of innovation and related support

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Some ensuing technical challenges to tackle

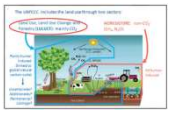
- Promote climate-resilient and low-emission practices and technologies

- Expand digital advisory systems
  Getting timely, tailored information to farmers

- Expand automation of processes
  Simplification/modernisation

- Promote easy data capture solutions
  Simplification of processes

- Ensure interoperability of data exchange
  Data multi use purpose



- Ensure data sharing/aggregation solutions
  Production of indicators

- Solutions for data access, processing and storage

- *Assimilating 2nd pillar and animal?*

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Are you convinced or do you agree that?

- Agricultural systems become more complex → Changes are inevitably coming.
- Farmers should be actively involved and benefit from their contribution.
- This needs a basis of common rules, interoperability, data harmonisation, knowledge sharing and transfer.
- Current innovation ecosystem can be a facilitator.

We are yet again in a "MacSharry like situation"

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From lessons from the past …

- Think Integrated System

- Do not expect to overcome all challenges before starting
- Start implementation with dimensioned scope
- Setup brainstorming and expert groups

- Challenges/problems to be discussed and tackled 'along the road'
- The Checks by Monitoring help paving the way to next CAP

Looking forward the 30th MARS Conference !!!

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Thanks

Looking forward your questions
… in the years to come !!!

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and the whole MARS Farming and Food Team

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