



Advancing eHealth  
Interoperability

# Adoption and take up of standards and profiles for e-Health Interoperability

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1. **Project Antilope - why/what/how ?**
2. **European eHealth Interoperability Context**
3. **Antilope regional Summit on Interoperability in Healthcare**





The ability of two or more  
systems or components  
to exchange information  
and to use the information  
that has been exchanged

*Source: Institute of Electrical and Electronics Engineers.*

*IEEE Standard Computer Dictionary: A Compilation of IEEE Standard Computer Glossaries.*

*New York, NY: 1990.*



## The need for interoperability



- Quality and efficiency save costs
- Sharing and reuse of clinical data
- Requires Interoperable systems
- Interoperable data exchange services needed
- eEIF - Interoperability identified by the eHealth European Interoperability Framework as a priority.



- **Digital Agenda and eHealth Action Plan 2012-2020**
- Input from the European Projects:
  - **epSOS (2008-2013):**  
specifications of the cross border exchange of medical data based on IHE profiles
  - **HITCH (2010-2011):**  
eHealth Interoperability roadmap
  - **EHR-Q<sup>TN</sup> (2010-2012):**  
Roadmap towards Sustainable Pan-european certification of EHR Systems
  - **eEIF (2012):**  
eHealth European Interoperability Framework



# Antilope,

Background, purpose, outcome



## Antilope a thematic network:

- Develop documentation and educational materials related to existing standards and profiles for eHealth interoperability
- Drive adaption and improve the standard development process
- Define QA testing guidelines for interoperability
- Propose a labelling and certification process (EU level and national level)



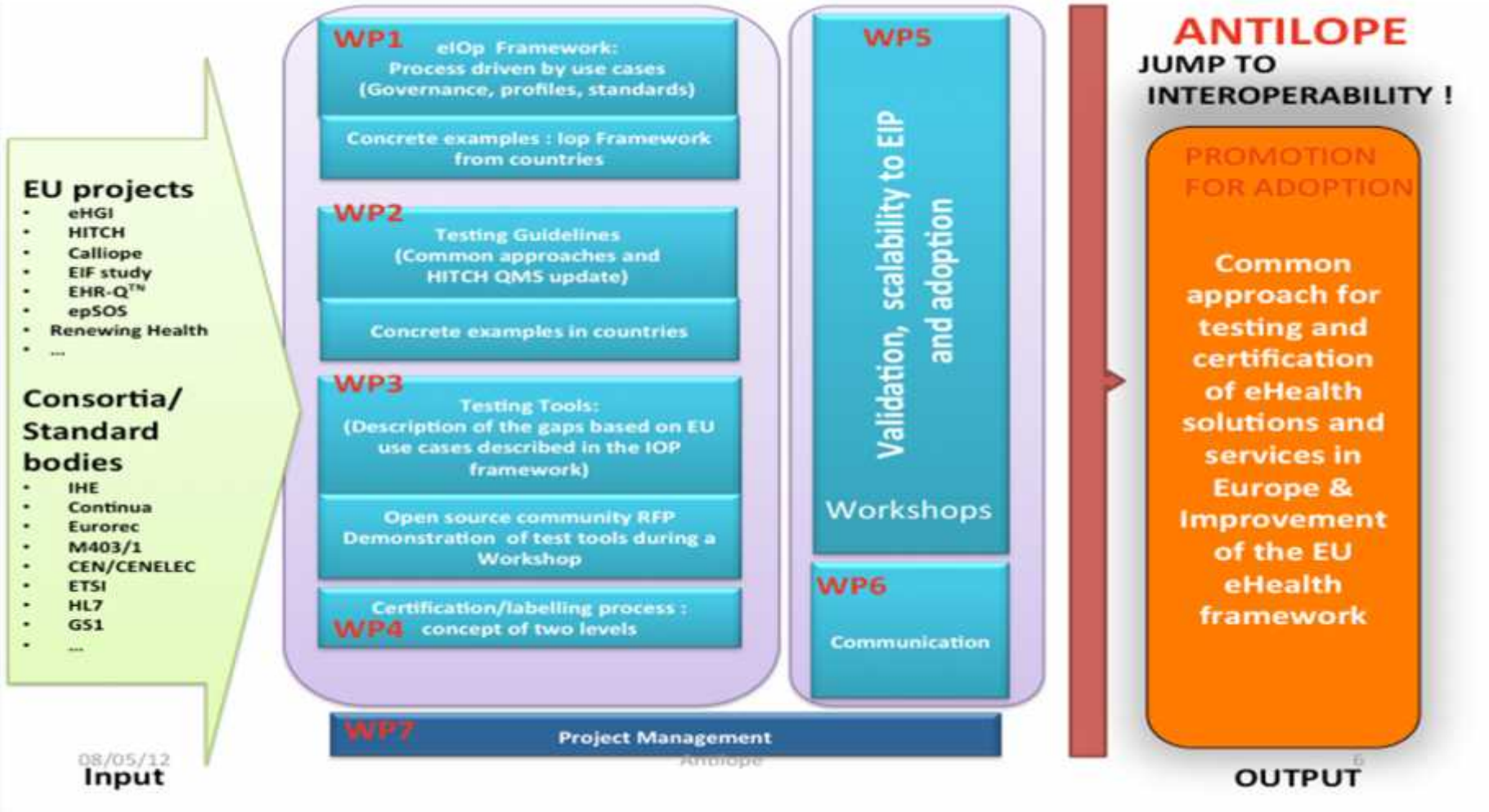
# Antilope, Background, purpose, outcome



1. To foster interoperability we need **well defined use cases and the related standards and profiles identified / available**
  - ✓ *Refined eHealth European Interoperability Framework*
2. **Quality and Interoperability needs** to be proven in a trustworthy way.
  - ✓ *Quality Labelling and Certification*
3. **Reliable tools** needed to assess interoperability services and products.
  - ✓ *Interoperability Testing Tools*
4. **Testing, testing procedures** and testing tools are quality assessed on their own
  - ✓ *Quality Management System*
5. How to realise **in my country?**
  - ✓ *Stepwise approach*



# Antilope, Background, purpose, outcome





WP1: eHealth Interoperability Framework



WP2: Quality Manual for IOP Testing

WP3: Testing Tools

WP4: Labelling and Certification Process



WP5: Validation, Scalability to EIP and Adoption

WP7: Project Management

WP6: Communication



Consortium of:

- organisations and experts involved in :
  - standards development and project specifications
  - interoperability testing
  - quality labelling and certification processes
  
- organisations representing users, industry and health authorities
  
- Partners from eEIF framework project.



## Core Partners

1. **MEDCOM** - MedCom, Denmark
2. **IHE-EUROPE** - INTEGRATING THE HEALTHCARE ENTERPRISE, Belgium
3. **Eurorec** - EUROPEAN INSTITUTE FOR HEALTH RECORDS, France
4. **Continua** - CONTINUA HEALTH ALLIANCE PRIVATE STICHTING Belgium
5. **NICTIZ** - STICHTING NATIONAAL ICT INSTITUUT IN DE ZORG, Netherlands
6. **ETSI** - INSTITUT EUROPEEN DES NORMES DE TELECOMMUNICATION, France
7. **EEHF** - EESTI E-TERVISE SIHTASUTUS, Estonia

## Expert Partners

8. **EHTEL** - EUROPEAN HEALTH TELEMATICS ASSOCIATION, Belgium
9. **INSTITUUT NEN** - STICHTING NEDERLANDS NORMALISATIE, Netherlands
10. **EN13606** - VERENIGING EN13606 CONSORTIUM, Netherlands
11. **ILiM** - INSTYTUT LOGISTYKI I MAGAZYNOWANIA, Poland
12. **HL7 INTERNATIONAL** - HL7 INTERNATIONAL FONDATION, Belgium
23. **NIPH** - INSTITUT ZA VAROVANJE ZDRAVJA REPUBLIKE SLOVENIJE, Slovenia

## Supporting Validation Partners

13. **ProRec.SI** - USTANOVA PROREC.SI, Slovenia
14. **NCZI** - NARODNE CENTRUM ZDRAVOTNICKYCH INFORMACII, Slovakia
15. **ASSINTER** - ASSOCIAZIONE DELLE SOCIETA PER L INNOVAZIONE TECNOLOGICA NELLE REGIONI, Italy
16. **HL7HELLAS** - HEALTH LEVEL SEVEN ELLAS, Greece
17. **IHE-UK** - IHE-UK LTD LBG, United Kingdom
18. **TICSALUT** - FUNDACIO TICSALUT, Spain
19. **ProRec-BE** - PROREC-BE VZW, Belgium
20. **Interop Santé** - INTEROP'SANTE ASSOCIATION, France
21. **Technikum Wien** - TECHNIKUM WIEN GMBH, Austria
22. **MEDIQ** - MEDIQ AS, Denmark





# Antilope Core and Expert Partners



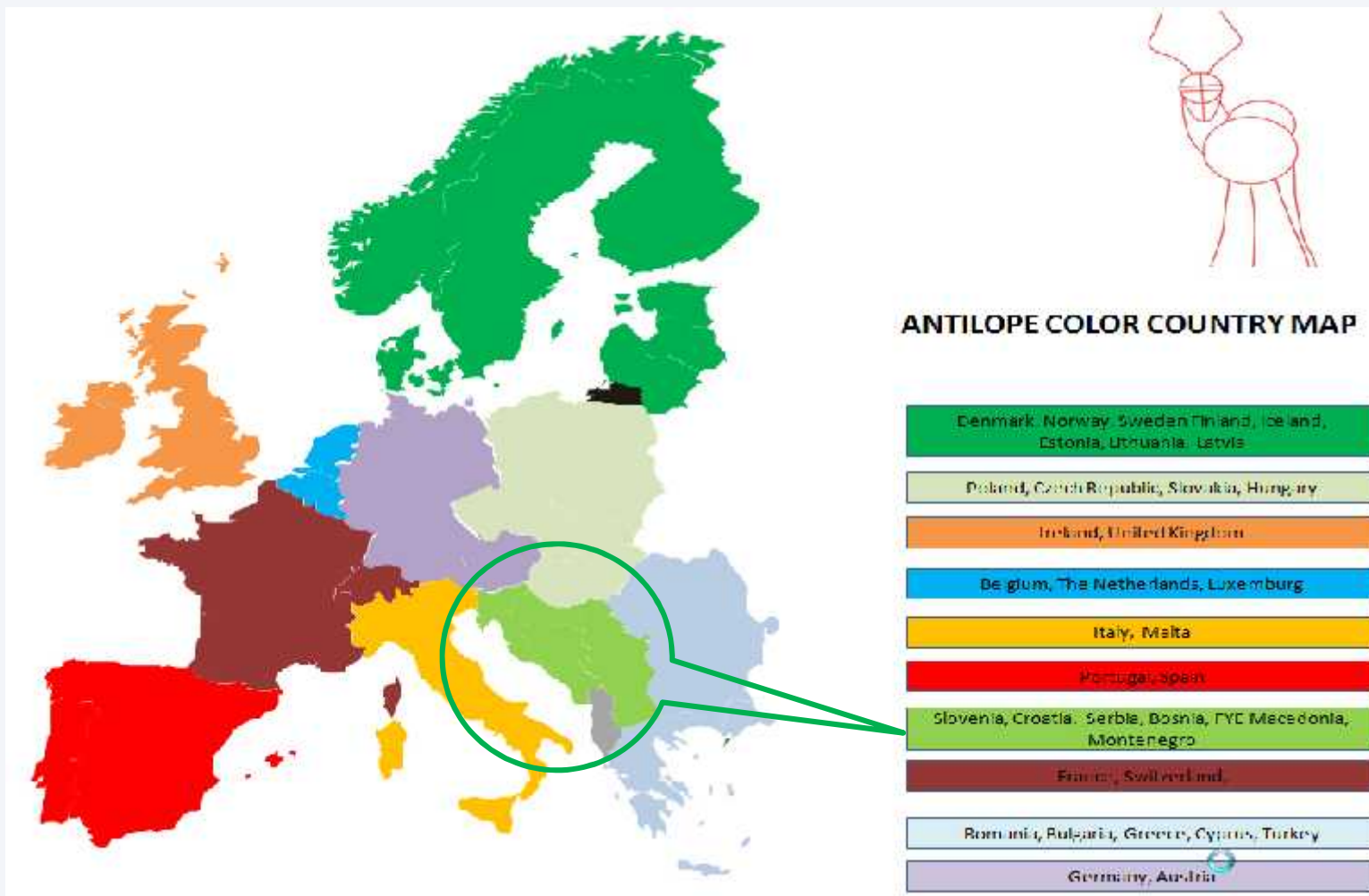


## Regional Summits on Interoperability in Healthcare



- Organization of the 10 Workshops (Regional Summits on Interoperability in Healthcare) in Europe between Nov. 2013 – Oct. 2014
- Education and validation of the deliverables;
- Comments, feedback and suggestions leverage for input and update the deliverables of the project;







- **To agree that**
  - interoperability is essential for care safety and cost containment
  - interoperability of eHealth systems should never be taken as given.
  - To achieve interoperability use of appropriate standards and profiles supported by appropriate testing is needed.
  - interoperability testing should be based on a Quality Management System using testing tools
  - the eHealth European Interoperability framework is the first step in harmonising interoperability efforts over Europe (at country, region or local level).
- **To bring you to the point to**
  - include in your regulatory framework the concepts of proven and certified functional quality requirements, to reach national as well as cross border interoperability
- **To partner towards interoperability**





- Antilope results cover four complementary areas (WP1-4)  
Each area will be presented in a similar way through:
  - Key statements
  - Additional background information
- Some of these statements will be debated afterwards
- Your opinion will become part of the Antilope guidance through a questionnaire



# Antilope, background, purpose, outcome



## Outcome

Common approach for testing and certification through recommendations for reaching interoperability, **based on:**

1. Use cases
2. Quality manual – Quality proces
3. Selected tools
4. Certification and labelling
5. Educational material
6. Input from Regional summits



# Thank you!

More info on:

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