ETSI ISG ISI initiative
Summary Presentation

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Fill the gap in the Cyber Defence and SIEM standardization fields (1)

Reference frameworks missing and hindering IT security measures benchmarking

- ❑ 5-year field experience in the Cyber Defence domain with the French Club R2GS gathering 45 major companies and organizations (including French Network and Information Security Agency ANSSI)
- ❑ Network of similar « grassroots » Chapters under development in Europe (UK, Germany, Luxemburg, Italy, others to come)
- ❑ Production of reference frameworks used by most Club R2GS members (sometimes on a worldwide scale)
  - ➢ Event classification model (incidents and vulnerabilities/nonconformities)
  - ➢ Full set of operational indicators
- ❑ Feasibility of benchmarking based on ***state-of-the-art statistical figures*** tied to the set of indicators has been proven

Fill the gap in the Cyber Defence and SIEM standardization fields (2)

Scope in the world regarding standardization in this field

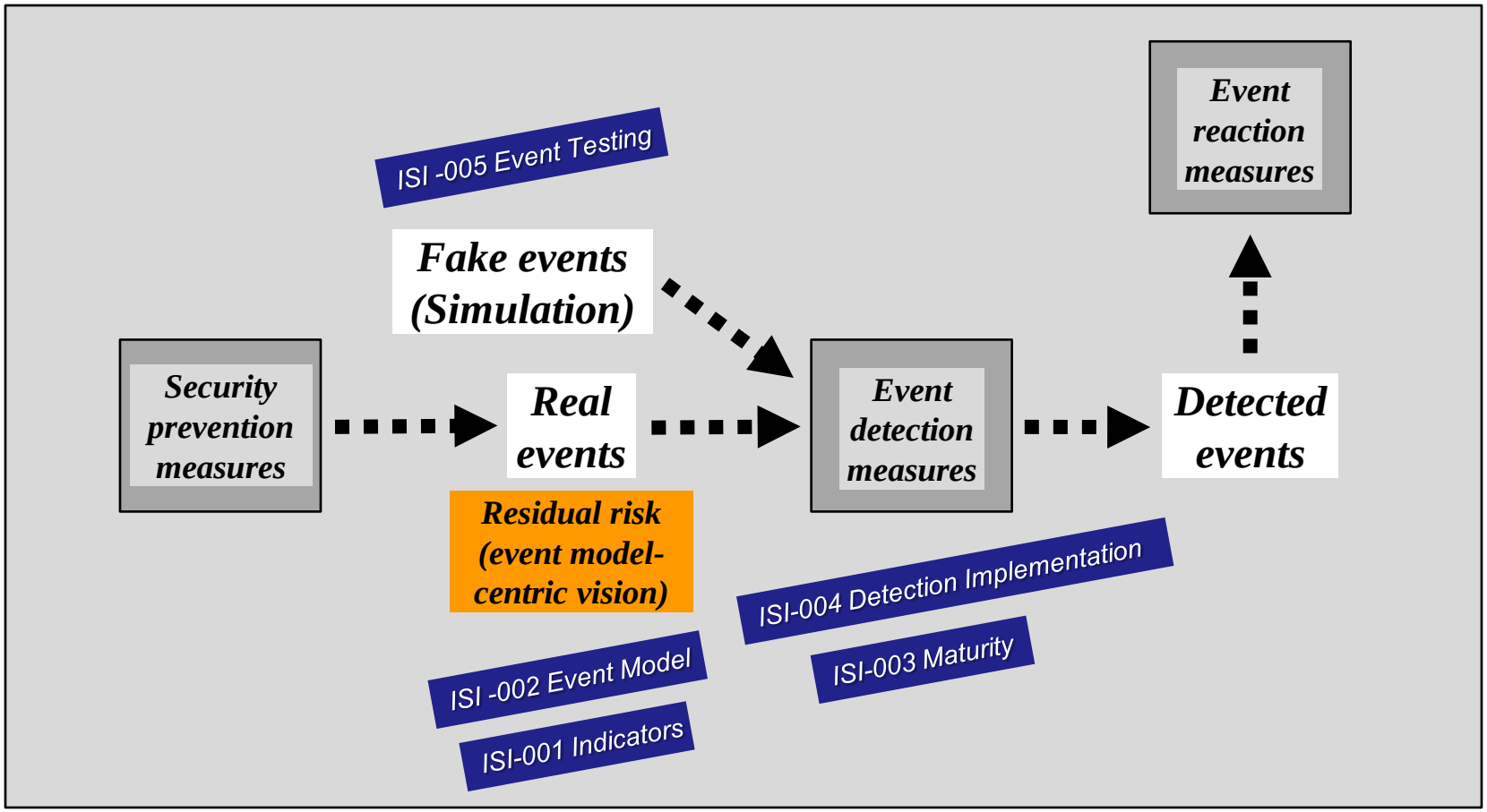
- **At first and above all, standards for IT security indicators and for tied up event classification model are missing (or are still very poor)**
- **Overcome past genuine difficulties on this matter =**
  - **Too technical or ill-positioned or not well structured standards (for example too bushy and messy MITRE CEE or CAPEC)**
  - **Strong vision required together with adjustment time through implementation (right aggregation level or scope of indicators)**
- **Find out the *half way* between security governance understanding and ground technical positioning and skills =**
  - **Gain support from IT and security managers and decision makers**

Address the full scope of main missing security event detection issues

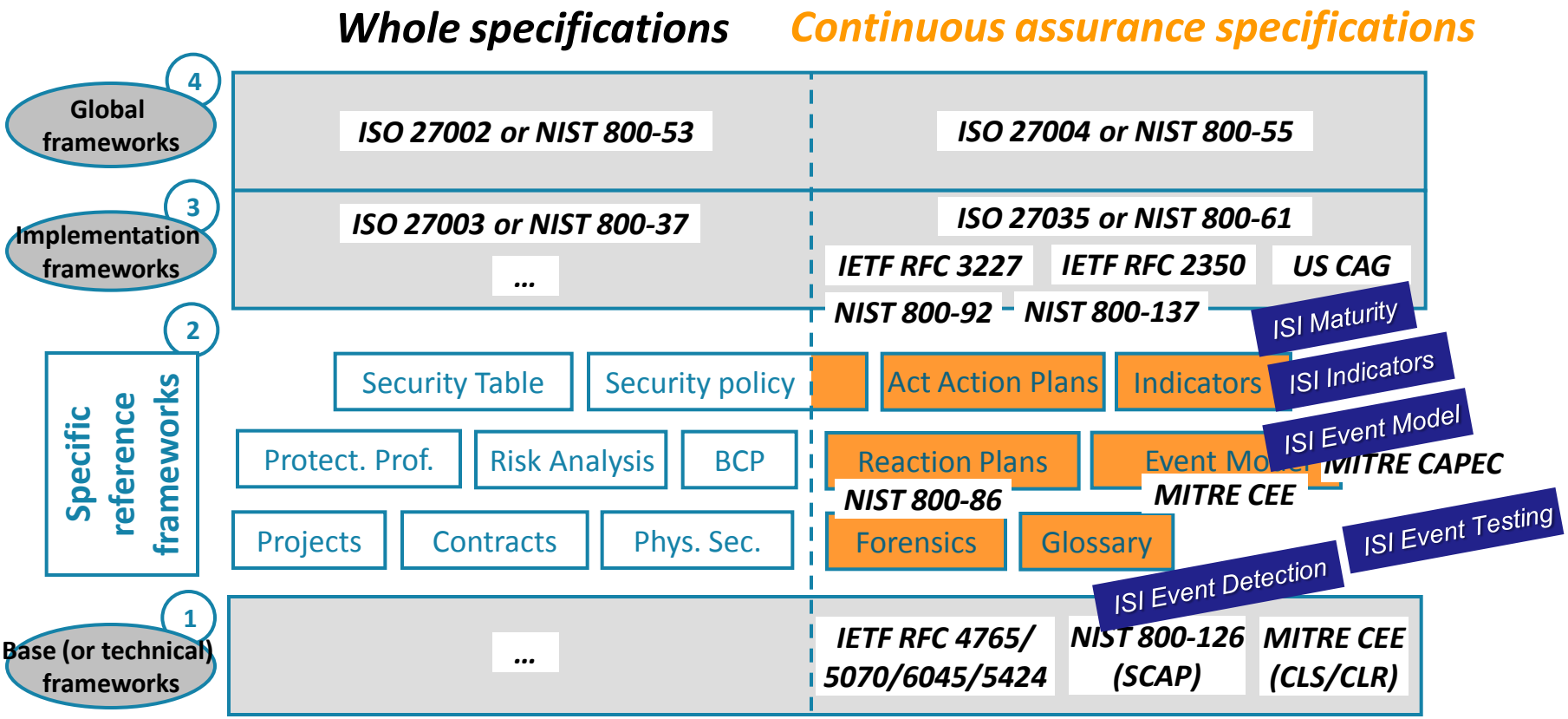
5 Work Items

- **ISI Indicators (ISI-001-1 and Guide ISI-001-2) = A powerful way to assess security measures level of application and effectiveness**
- **ISI Event Model (ISI-002) = A comprehensive security event classification model (taxonomy + representation)**
- **ISI Maturity (ISI-003) = Necessary to assess the maturity level regarding overall event detection (technology/people/process) and to weigh event detection results. Complements ISI-005 (which is more detailed and a more case by case approach)**
- **ISI Event Detection (ISI-004) = Demonstrate through examples how to produce indicators and how to detect the related events with various means and methods (with classification of hints/symptoms/artifacts)**
- **ISI Event Testing (ISI-005) = Propose a way to produce security events and to test the effectiveness of existing detection means (for major types of events)**

ISI Work Items Positioning



ISI Work Items positioned against other standards



Mrs De Soete – ISO JTC1 SC27 Vice-chair – Presentation at the 9th ETSI Security Workshop (Excerpt regarding links between ISO JTC1 SC27 and ETSI Security Cluster)

ISG ISI schedule

Most of specifications already available

- **ISG ISI started in Fall 2011 = Members of the Unit and of the 5 Work Items are European and US experts**
- **ISI Indicators (ISI-001-1 and ISI-001-2) and ISI Event Model (ISI-002) published in April 2013**
- **ISI Maturity (ISI-003) published in April 2014**
- **ISI Event Implementation (ISI-004) published in December 2013**
- **ISI Event Testing (ISI-005) started at the beginning of 2013 and might be available at the beginning of 2015**

Release of ISG ISI specifications

1st target is Europe

- Release notably through the network of associations in Europe (Club R2GS Chapters), which is structured around ISG ISI specifications
- Release through ETSI members (see 9th Security Workshop on 15/16 January 2014)
- Promotion through liaisons with ISO JTC1 SC 27 and ITU-T SG17 Q4, through national standardization bodies (AFNOR, DIN, UNI, BSI, ...), via vendors or service providers (Qualys, ...), through the IT security world community (RSA Conference, ...)
- Basis for the constitution of large data bases in Europe =
  - Independent IT security observatories providing dependable state-of-the-art figures for indicators
- This will constitute a genuine step forward for the profession (within 2 to 3 years)...