

IEC/ISO SMART programme

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Purpose

- Raise awareness on the IEC/ISO SMART Programme
- Start a discussion with Japanese stakeholders on the relevance of and participation in the programme

Why SMART?

Why we need to change



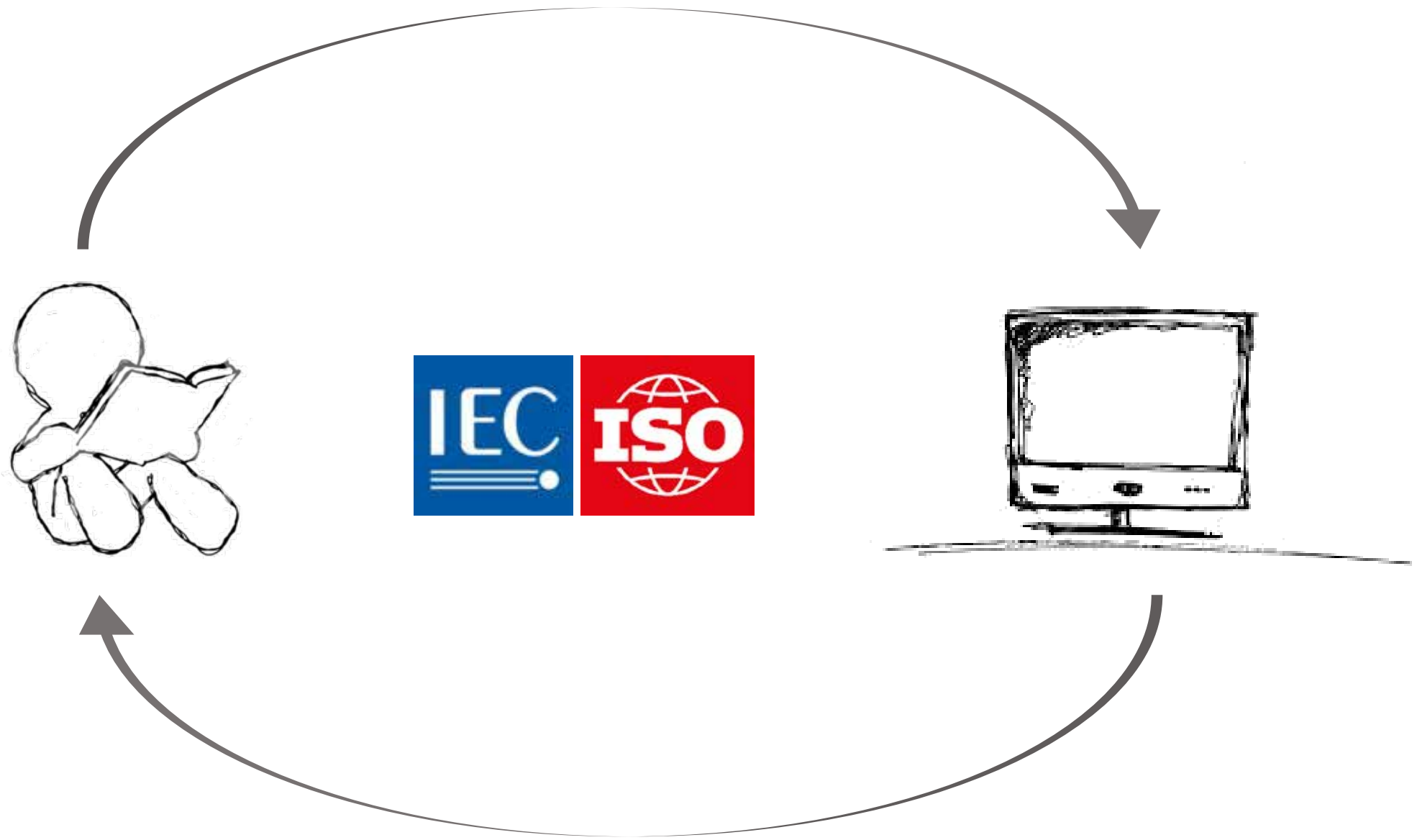
There are ongoing demands for **faster**, more agile developments



Processes and products are perceived to be **outdated** and unattractive to the new generation of experts and users



Our products and services do not fit into the new '**digital world**' paradigm



What is SMART?

SMART Programme is...

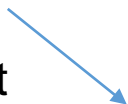
A **transformational programme** aimed at supporting **user's current and evolving needs** through producing standards that are applicable, readable and transferable by machines

Current offer

Future offer



Human involvement



Paper



PDF



XML



smart



Machine involvement



Example

Level 1 – open digital format

....it is important to wear a medical face mask when....

....and to take an Aspirin in case of....

Level 2 – machine readable document

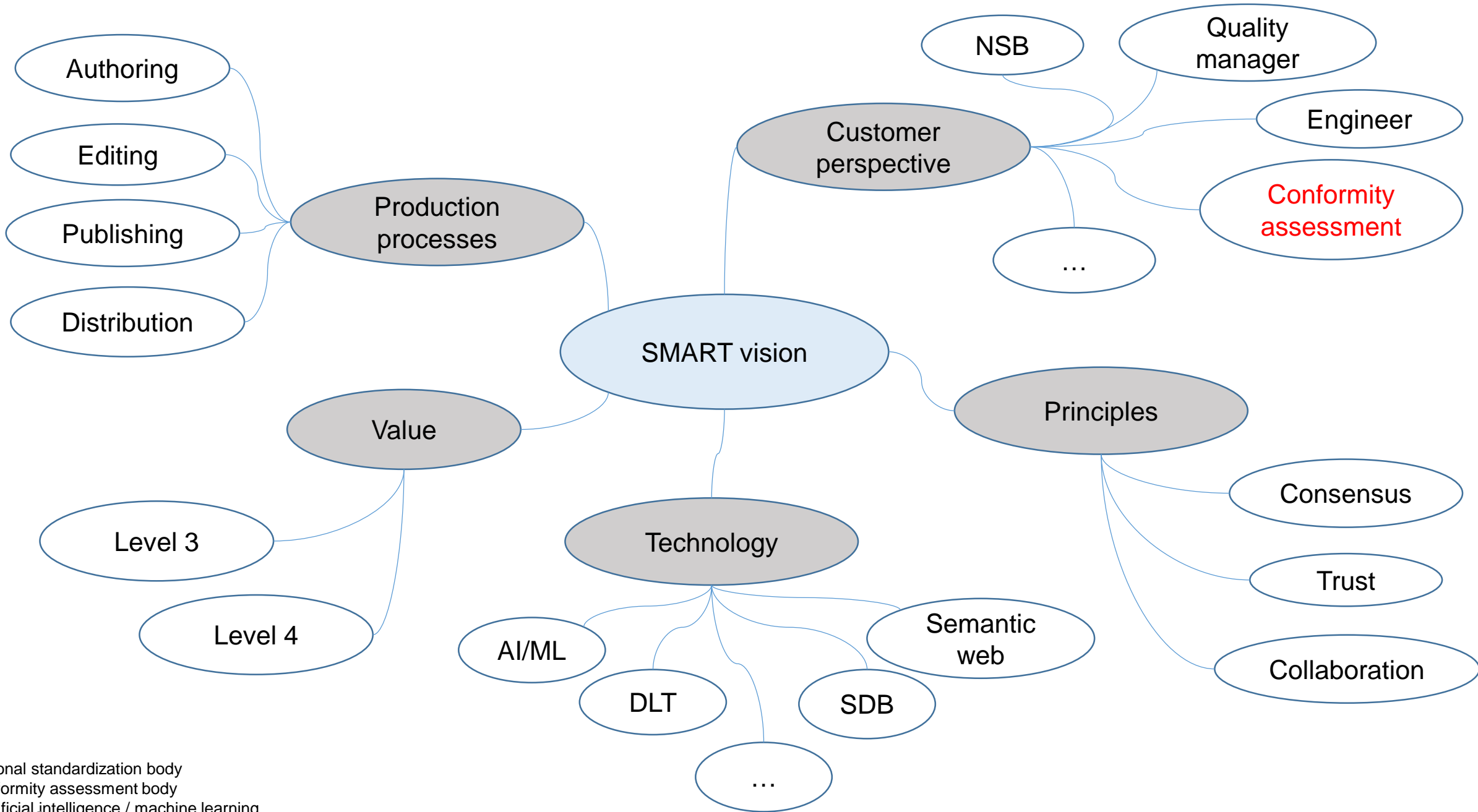
```
- <text:p text:style-name="Standard">  
  <text:span text:style-name="T1">....it is important to wear a  
</text:p>  
- <text:p text:style-name="Standard">  
  <text:span text:style-name="T1">....and to take an Aspirin in  
</text:p>  
<text:p text:style-name="Standard"/>
```

Level 3 – machine readable content

```
<warning>Wear a medical face mask</warning>  
<product>Aspirin</product>
```

Level 4 – machine interpretable content

```
<warning ref=ISO22609:2004>Wear a medical face  
mask</warning>  
<product ref=FDA-NDA=016039>Aspirin</product>
```



NSB – national standardization body
 CAB – conformity assessment body
 AI/ML – artificial intelligence / machine learning
 DLT – distributed ledger technology
 SDB – standards as databases

Who is SMART for?

SMEs who want to seamlessly identify standards requirements

End users interested in providing timely feedback on standards content

Customers seeking a broader range of customized information

End users looking for easier access to data

Large corporations that must comply with different regulatory requirements

NSBs interested in sustaining and growing their business in response to national user needs

Assessors/auditors looking for more efficient ways to evaluate compliance

Businesses who are interested in part of a standard

Industries that use automated requirement management systems

CEOs and quality managers interested in having a timely and transparent state of compliance

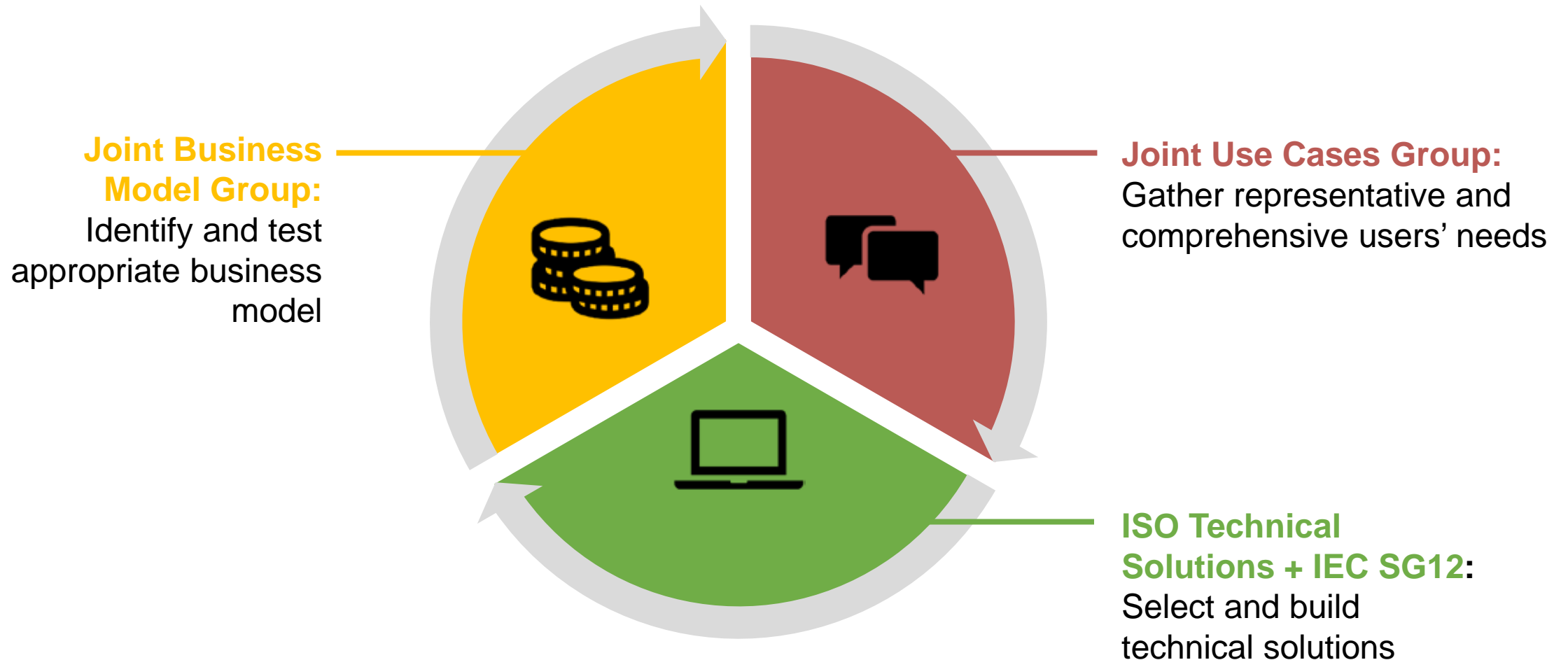
Users wanting to see **customer expectations** better integrated in the standards lifecycle

How are we getting there?

An overarching joint IEC/ISO programme



Delivered via three parallel project areas



Overall timeline

2021

- ISO SG and IEC TF established
- Projects defined and launched
- Team identified

2022

- Collaboration framework set up
- Use cases set up and gathered
- Revenue models and readiness assessed
- Terminology, design analysis and requirements set against use cases
- Pilots started




2023

- Additional use cases gathered and analysed
- Impact on business models assessed
- Pilots and testing carried out based on prioritized use cases

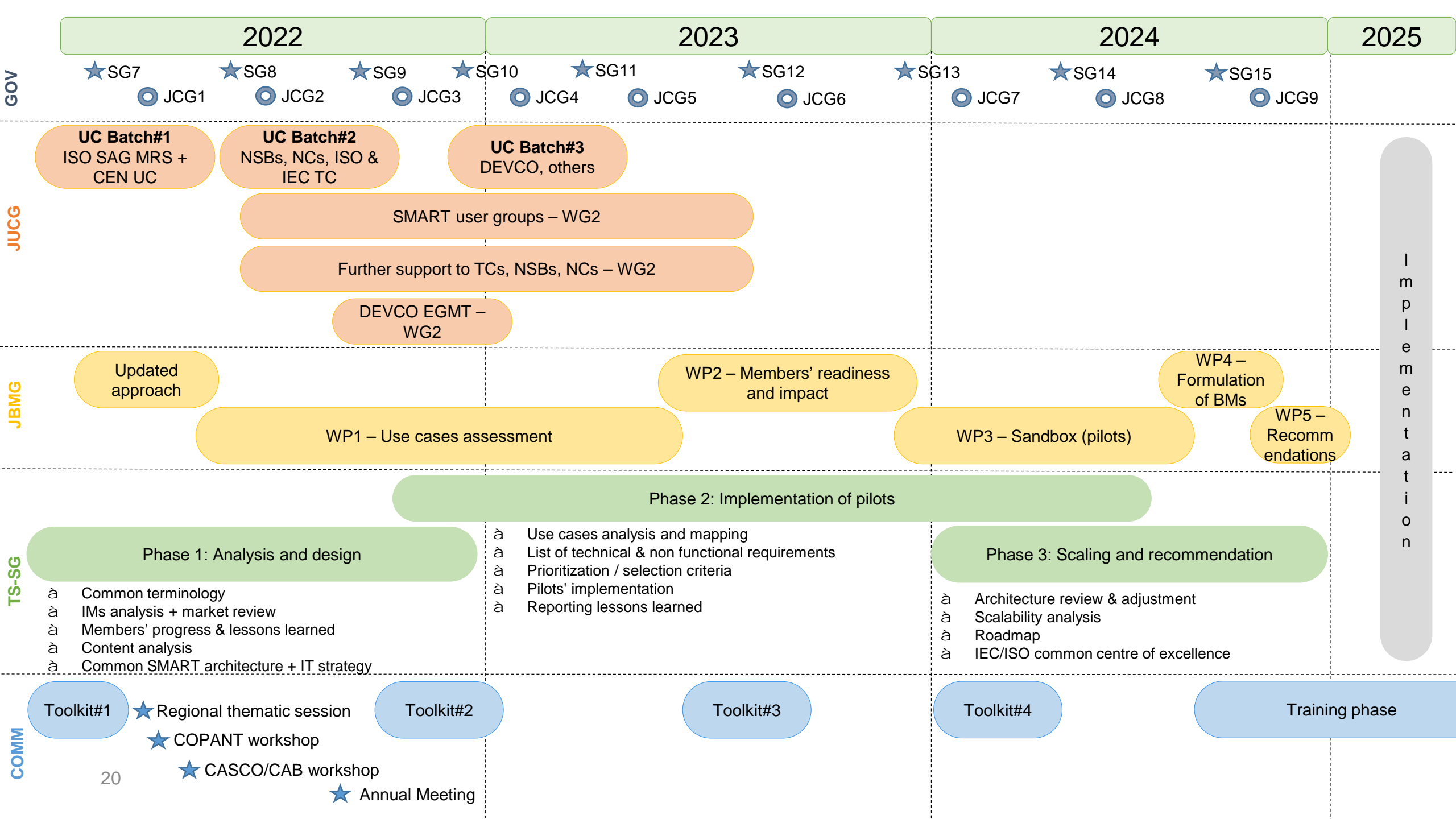
2024

- Business model formulated
- Scalability and new processes defined
- Technical implementation scaled up

Challenges

-  Having a broad enough collection of user stories
-  Finding a sustainable solution for all stakeholders
-  Anticipating any potential legal/ commercial/ conformity assessment implication related to this new deliverable

What's next?



Next steps

- Use cases(UC) batch 1 mapping
- Publishing of UC guidance for members
- Launch of Use cases batch 2
- Elaboration of commercial scenarios
- Ongoing terminology phase
- ISO Annual Meeting 2022

How to know more?

How to know more

For everyone:

www.iso.org/smart

Information on:

- **SMART programme:**

Mara Rolando (rolando@iso.org) and/or Augustin Rollet (rollet@iso.org)

Gilles Thonet (gth@iec.ch)

- **Joint Use cases project:** Nathan Taylor (taylor@iso.org) and Miroslav Siket (msi@iec.ch)

- **Joint Business model project:** Boris Maggia (maggia@iso.org) and Guilaine Fournet (gnf@iec.ch)

- **ISO Technical solutions:** Yuliya Gerasymchuk (gerasymchuk@iso.org)

- **IEC SG12:** Miroslav Siket (msi@iec.ch)

Thank you