



INFORMATION FOR TECHNICAL BODY OFFICERS

Digital Transformation – key initiatives

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CEN-CENELEC



Agenda

Strategy & initiative list

Each initiative

What if you have a request?

Strategy & initiative list



Goal 2: Our customers and stakeholders benefit from state-of-the-art digital solutions

2.1 Produce standards fit for the digital economy

2.2 Transform the standards development process

2.3 Transforming our business models for the digital era

Initiatives list

Project 1: Online Collaborative Authoring (FontoXML)

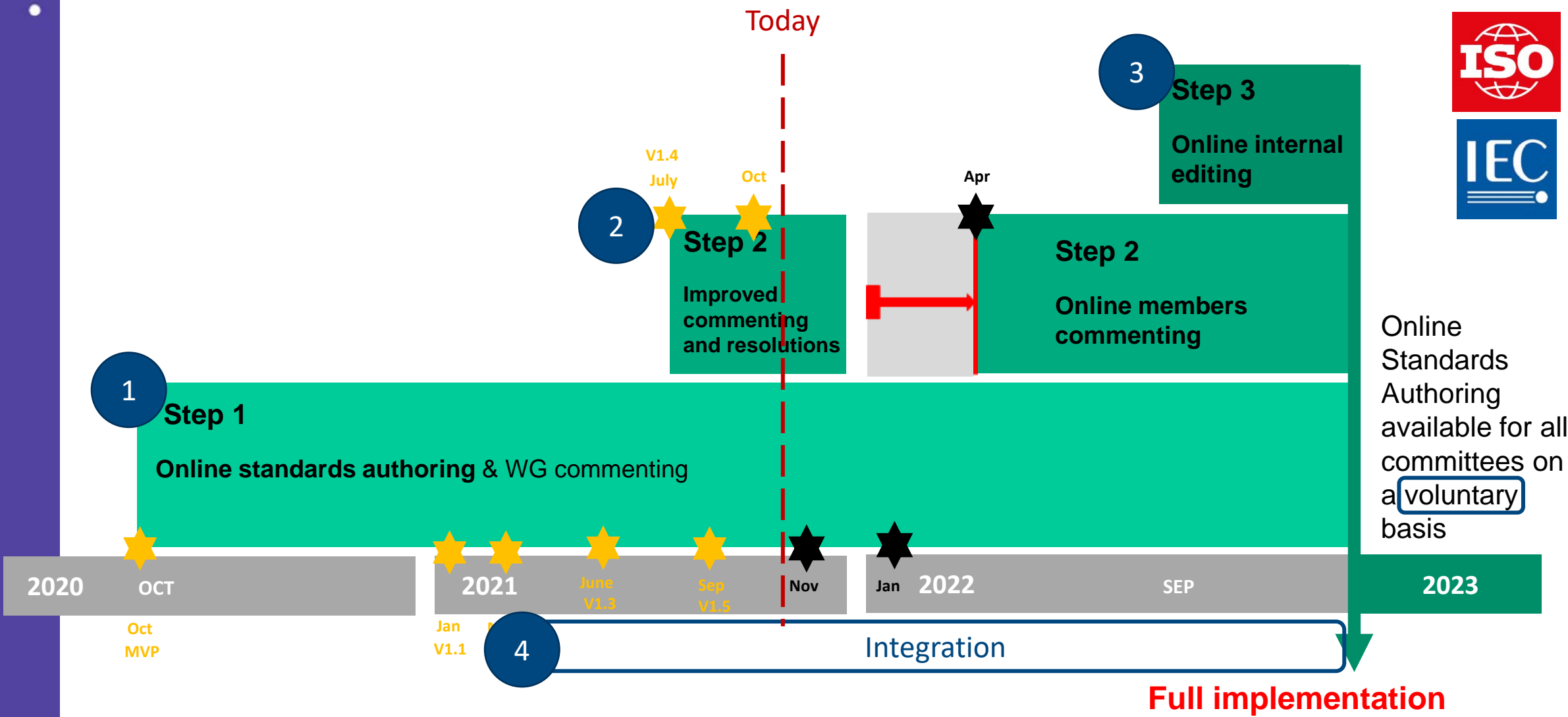
Project 2: Standards of the Future (smart standards)

Project 4: Open Source Solutions

File attachments to deliverables

Project 1: Online Collaborative Authoring

Project overview



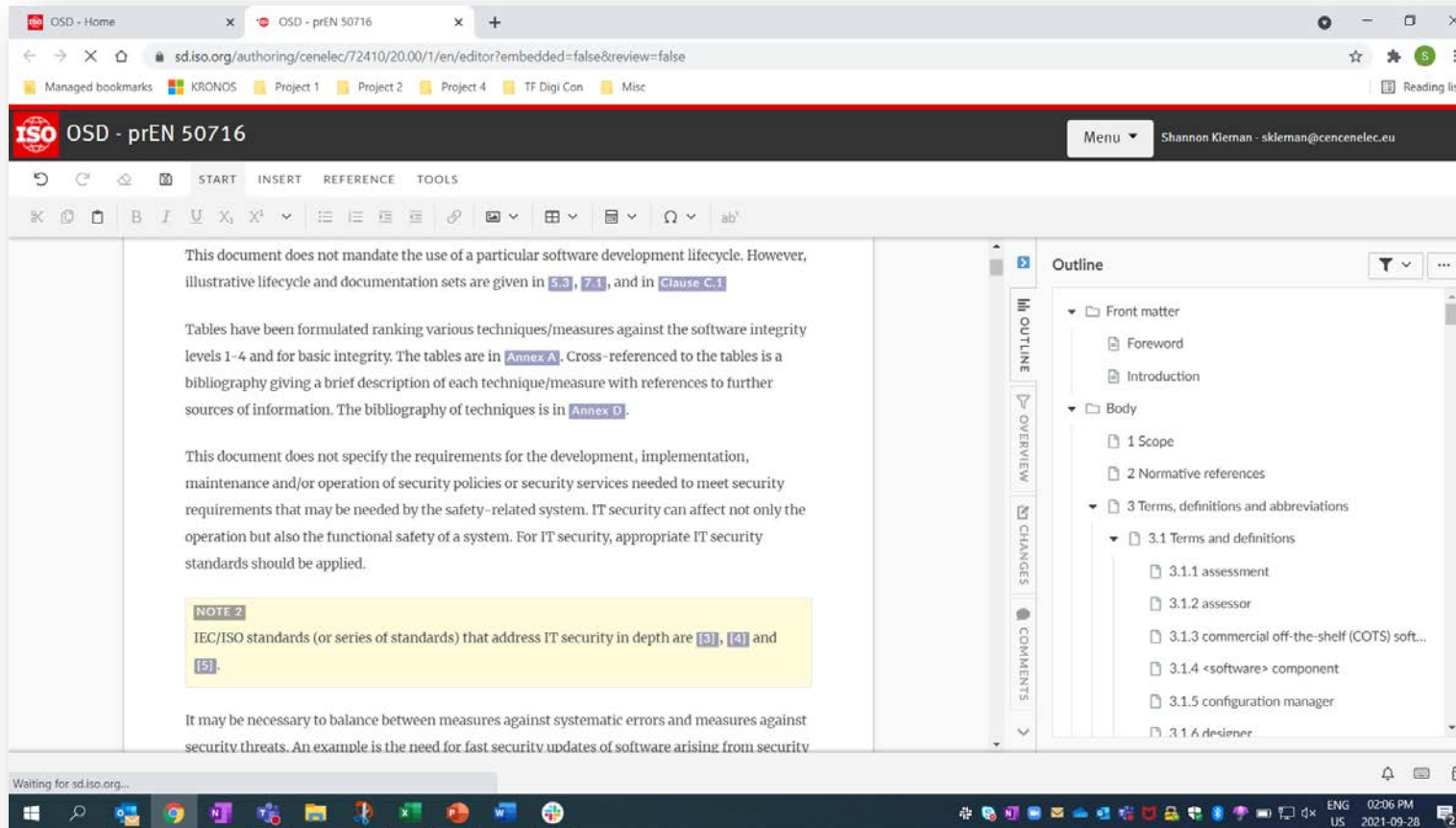
Online Standards Authoring available for all committees on a **voluntary** basis

Benefits

- ▶ Features – eg: normative referencing, concurrent editing, tagging & filtering comments...
- ▶ Structure & quality
- ▶ Transparency & inclusivity – access roles
- ▶ Single source of truth



What does it look like?



Sandbox
access
available via
Experts sites
(CEN/
CENELEC)

Access roles

| | Leader | Author | Contributor |
|-------------------------------|--------|--------|-------------|
| View content | ✓ | ✓ | ✓ |
| Add content | ✓ | ✓ | |
| Accept/reject tracked changes | ✓ | | |
| Add/delete/move clauses | ✓ | ✓ | |
| Add/delete own comments | ✓ | ✓ | ✓ |
| Reply to others' comments | ✓ | ✓ | ✓ |
| Resolve comments | ✓ | | |

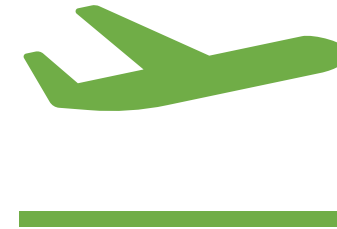


Pilots

| Group | Secretariat |
|----------------------|-------------|
| CEN/TC 89/WG 15 | DIN |
| CEN/TC 128/SC 9/WG 2 | DIN |
| CEN/TC 207/WG 10 | SIS |
| CEN/TC 250 | BSI |
| CEN/TC 278 | NEN |
| CEN/TC 439/WG 1 | DIN |
| CEN/TC 442 | SN |
| CLC/TC 9X | AFNOR-CEF |
| CLC/TC 14 | CEI |

 More pilots needed

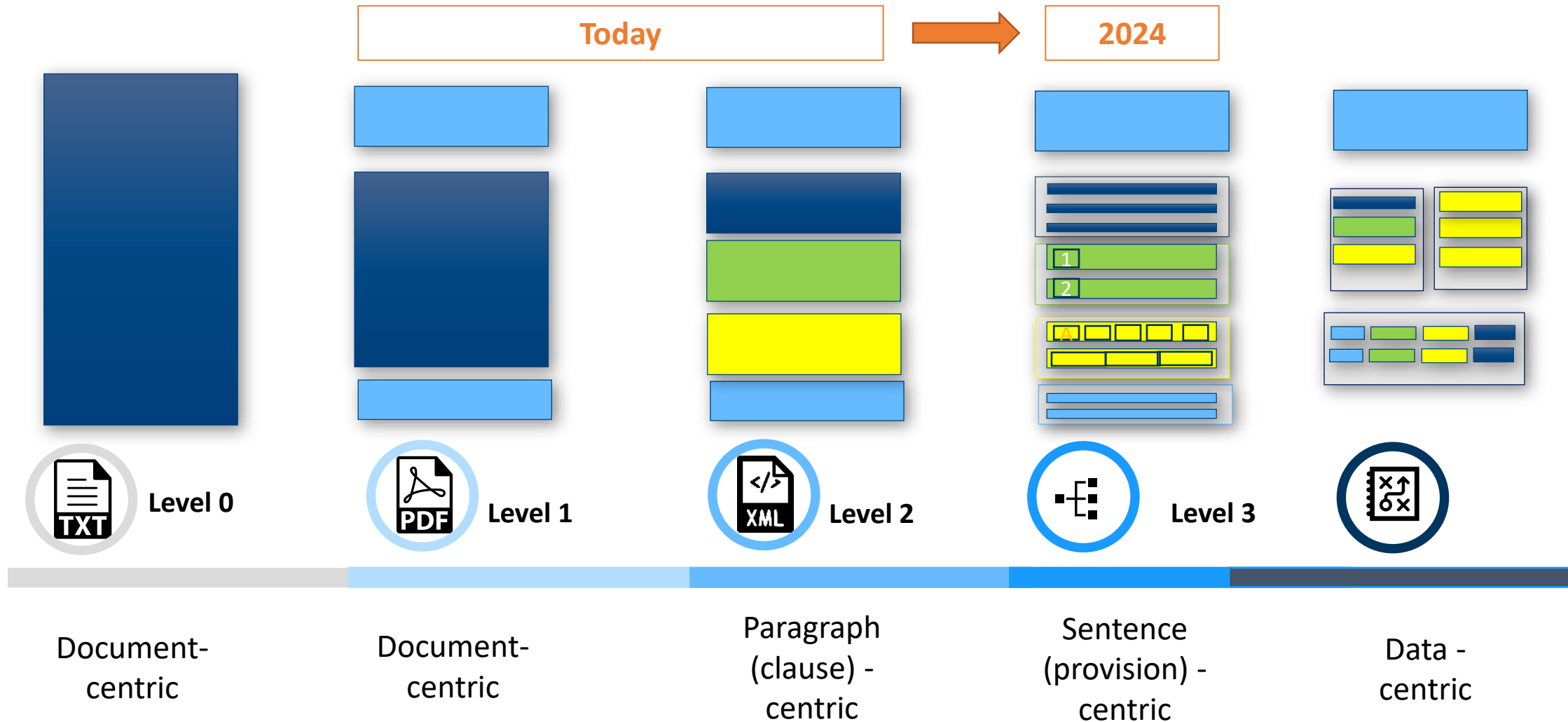
Expressions of interest via
Experts sites
([CEN](#)/[CENELEC](#))



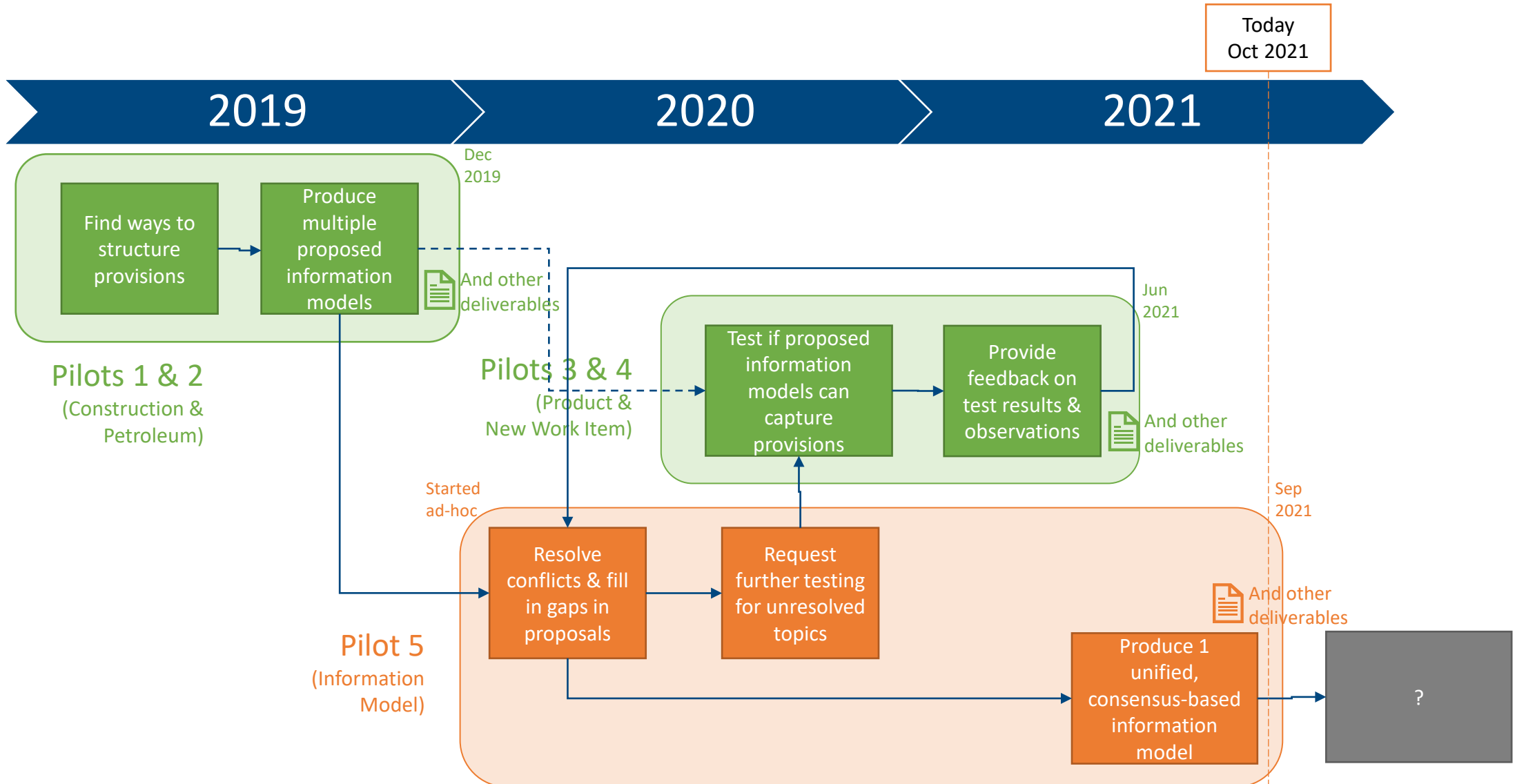
Help shape the future of
how this tool will work!

Project 2: Standards of the Future

What are smart standards?



Pilots so far



Results so far

▶ Lessons learned:

- ▶ Provision centric (Level 3) data structuring can be implemented relatively easily (compared to Level 4)
- ▶ But simply tagging a provision (Level 3) does not solve all user needs (eg: unambiguity, singularity)
- ▶ Collaborating with ISO & IEC is very important

▶ Produced:

- ▶ User groups in 4 countries + other user activities in a few others
- ▶ 100 user stories directly from users
- ▶ A draft Level 3 (provision centric) information model
- ▶ 4 potential ways to explicitly or implicitly create smart standards
 1. Smart structuring table (Excel)
 2. Triple structuring tool (custom software)
 3. Qualicen patterns (concept)
 4. Natural language processing (not automated yet; process that could be combined with other approaches)

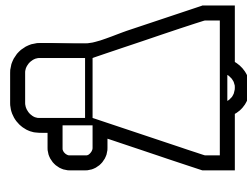
Impact on technical bodies

Today

Interested technical bodies:

- ▶ Join national stakeholder groups, info sessions, workshops, express requirements, etc

- ▶ Run a pilot



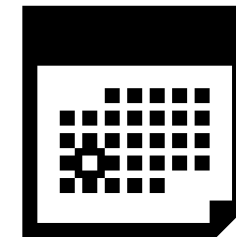
- ▶ All info on Experts sites ([CEN](#)/[CENELEC](#))

Others:

- ▶ No impact

After Dec 2024

To be determined (eg: all standards or just some?)



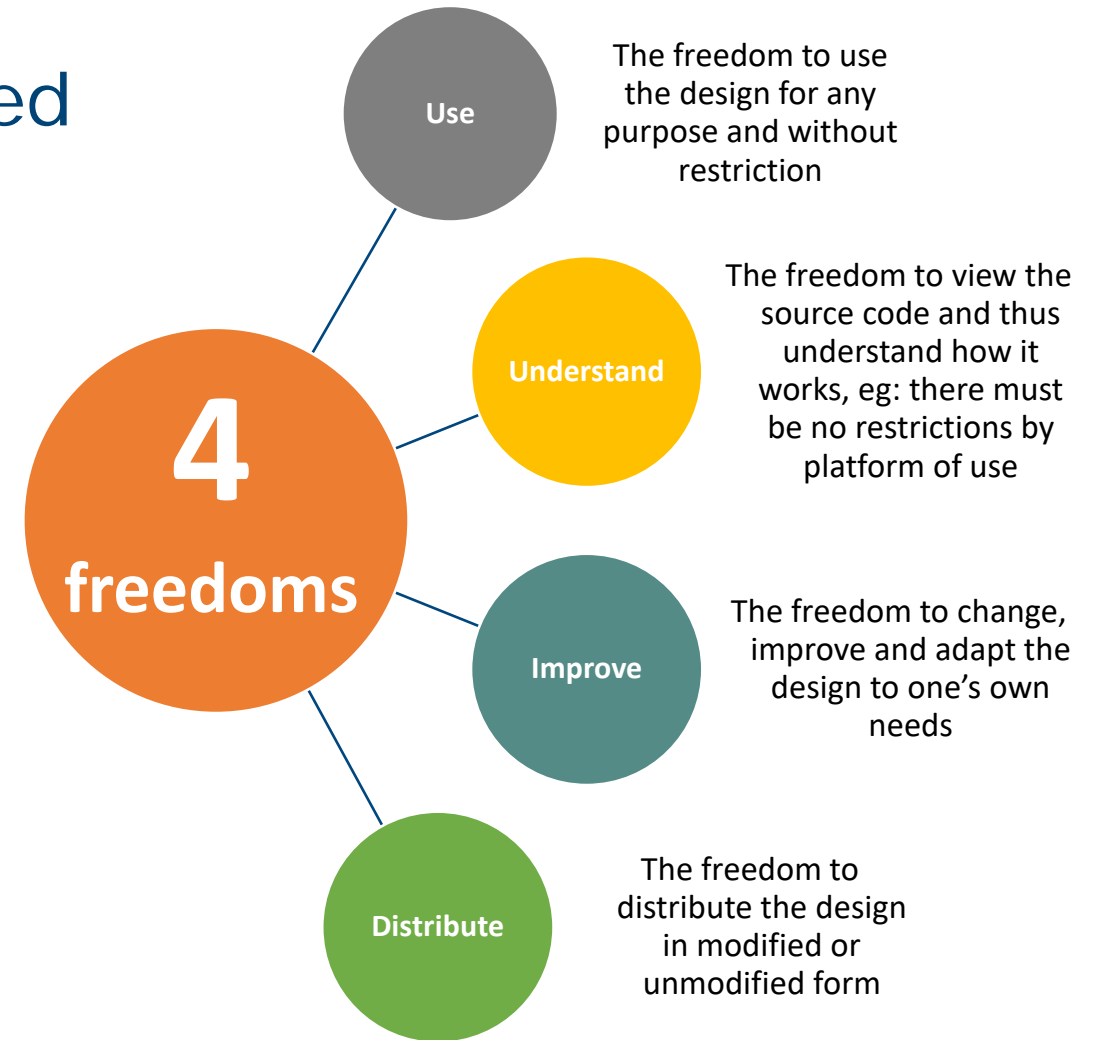
Project 4: Open Source Solutions

What is open source?

A design (eg: software) issued under a licence that satisfies certain criteria.

The detailed version:
Open Source Definition
<https://opensource.org/osd>

But the basic idea is...



Examples in standardization

Electronic Invoicing

▶ Reference implementation



A software tool that produces invoices that conform with an EN

▶ Testing tool



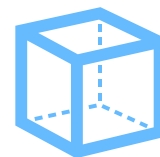
A software tool where you import an invoice and the tool tells you whether it conforms with an EN

Industry 4.0



Software to operate a sensor array that produces interoperable data for digital twins in conformity with an EN

Hardware



Design for a 3D printer that conforms with an EN

Common misunderstandings

Open Source costs nothing



People often think... since many open source projects are developed publicly in a community, then open source should not cost anything.

But really... the sale of open source designs is very much permitted and a common business model, although in practice it is almost always sold as a package along with something else like hardware or support services.

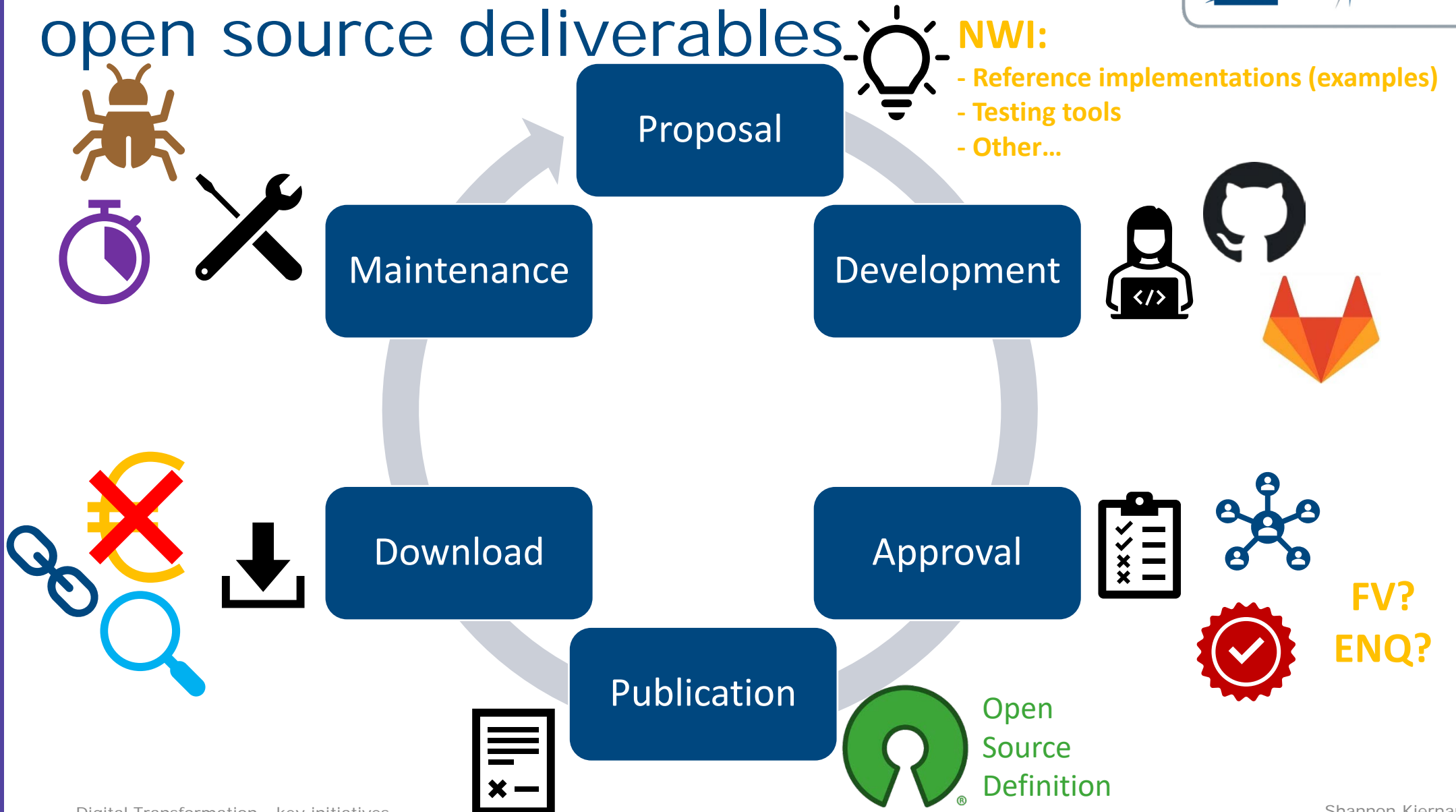
You have to return/ publish changes



People often think... you have to "give back to the community" or publish changes you make to the code, especially with copyleft licences.

But really... this is a possibility, but not an obligation. It is very much allowed to make private modifications and never share them. Very often, however, companies decide to share with the community anyway, as this can make economic sense.

A framework for open source deliverables

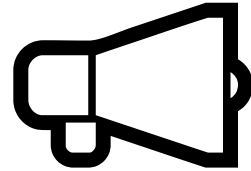


Impact on technical bodies

Today

Interested technical bodies:

- ▶ Join info sessions, workshops, etc
- ▶ Run a pilot
- ▶ All info on Experts sites ([CEN/CENELEC](#))

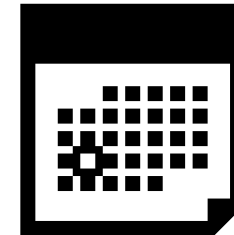


Others:

- ▶ No impact

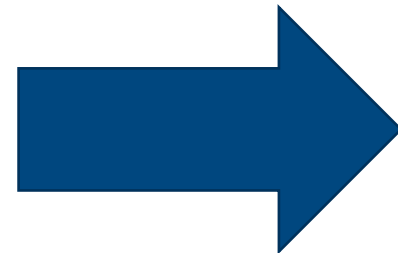
After Dec 2022

Available for all interested technical bodies

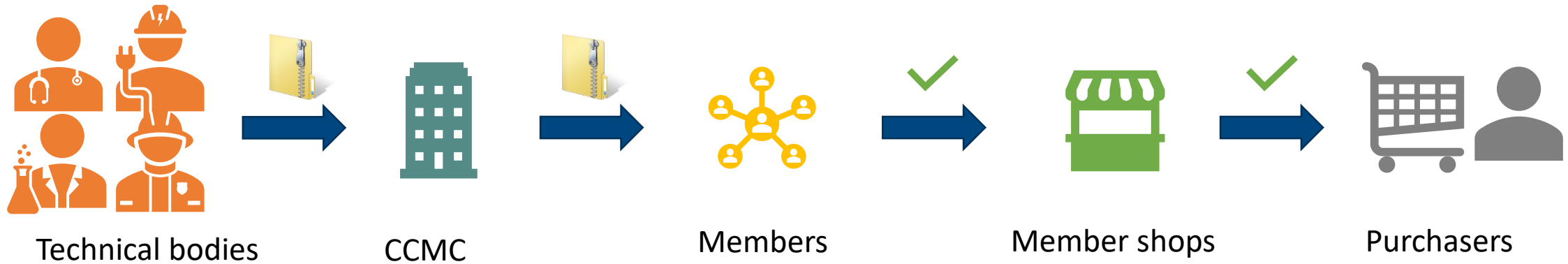


File attachments to deliverables

The problem that needed solving



The solution



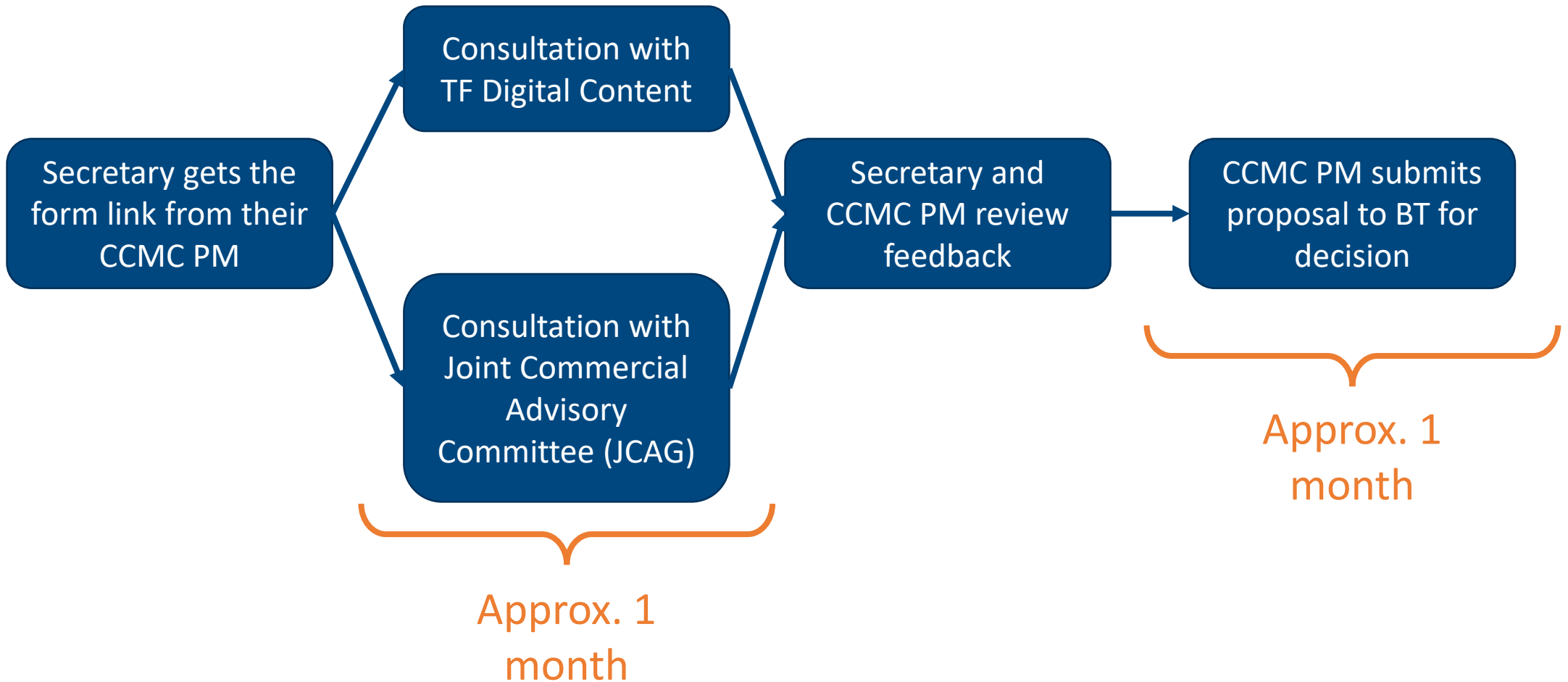
Approach:

- ▶ Quick and easy to implement
- ▶ Currently operating by exception
- ▶ General solution hoped to be approved during 2022

Guidelines for technical bodies:

- ▶ The content should not be able to be reasonably represented in Word/PDF/FontoXML
- ▶ The content purpose should be technical
- ▶ The file format should be appropriate (eg: widely used, non-proprietary)
- ▶ Human readable text should be edited and translated (but not formulas, computer code, computer-imported column names, etc)

Approval process for exceptions



The form

9. Why can the content not be sufficiently represented within Word/PDF? *

Enter your answer

10. File format and reasons for choice *

Enter your answer

11. Approximate file size *

If the files are too large, there may be problems storing and transferring them

Under 10 Megabytes

What if you have a request?


Activities & new Experts sites

experts.cen.eu

experts.cenelec.eu

 Target audience: experts

 No login required

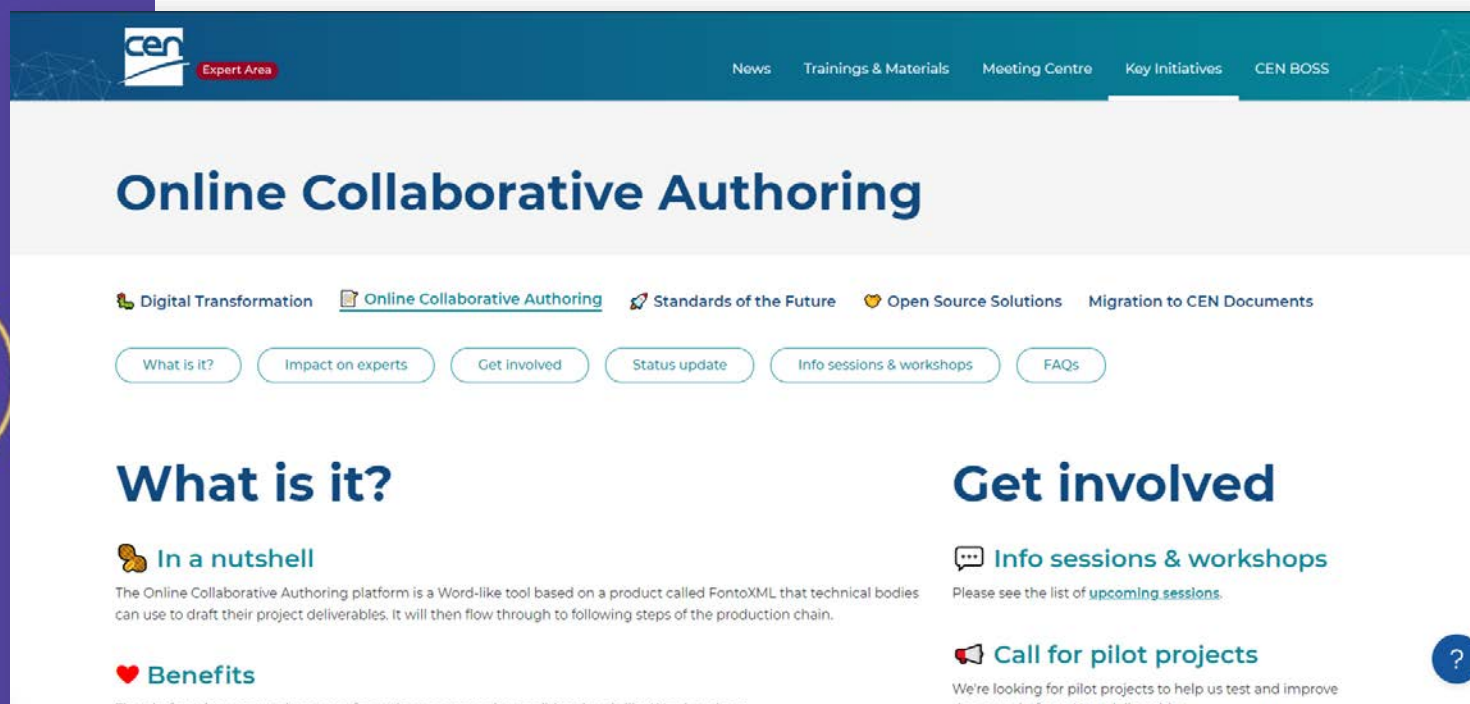
 Page per project + 1 for digital transformation overall, under Key Initiatives

 General information

 Calls for participation/pilots
































 Info sessions & workshops

 Slide deck for TC secretaries



The screenshot shows the 'Online Collaborative Authoring' page on the CEN website. The page features a teal header with the CEN logo and navigation links: News, Trainings & Materials, Meeting Centre, Key Initiatives, and CEN BOSS. Below the header, the main heading is 'Online Collaborative Authoring'. A secondary navigation bar includes links for Digital Transformation, Online Collaborative Authoring (highlighted), Standards of the Future, Open Source Solutions, and Migration to CEN Documents. A row of buttons provides quick access to 'What is it?', 'Impact on experts', 'Get involved', 'Status update', 'Info sessions & workshops', and 'FAQs'. The page is divided into two columns: 'What is it?' and 'Get involved'. The 'What is it?' section includes 'In a nutshell' (describing the platform as a Word-like tool based on FoutoXML) and 'Benefits'. The 'Get involved' section includes 'Info sessions & workshops' (with a link to upcoming sessions) and 'Call for pilot projects' (seeking pilot projects to test and improve the platform). A blue question mark icon is visible in the bottom right corner of the page.

Let's compare

| | P2: Standards of the Future (machine readable/smart) | P4: Open Source Solutions | File attachments to deliverables |
|----------------|--|---|---|
| Scope |  |  |  |
| Format |   |     ... |     ... |
| Funding |  |  |  |
| License |  |  |  |
| Review cycle |  |  |  |
| Availability | Dec 2024 | Dec 2022 | Now  |
| What to do now |    |    |   |

Digital Questions on New Work Item Form

1. The deliverable is intended to be developed using the Online Collaborative Authoring platform

Project 1

▶ Approved by BTs

2. The deliverable is intended to include non-Word/PDF content, e.g. audio files, XML schemas, machine-readable formats or software. Please provide details of the non-Word/PDF content: (free text)

Project 2, or
Project 4, or

File attachments to deliverables

▶ To go live in January 2022

If yes to either of these questions, CCMC will contact you for feasibility and organizational aspects.



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Thank you!

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