European Standardization Organizations

IT project plan - Status

2020-11-25 Meeting

Agenda

1. Introduction

2. Project Status

3. Future projects

4. Q&A

5. Future webinars & suggestions

1. INTRODUCTION

Communication on IT projects

- **IT projects plan status** Online:

  Link: https://www.cencenelec.eu/itprojectplan

  Password: ccmc

- **2020-04-23: IT project plan status - Webinar**

- **2020-11-25: IT project plan status – Webinar**

- **Presentation available from:**
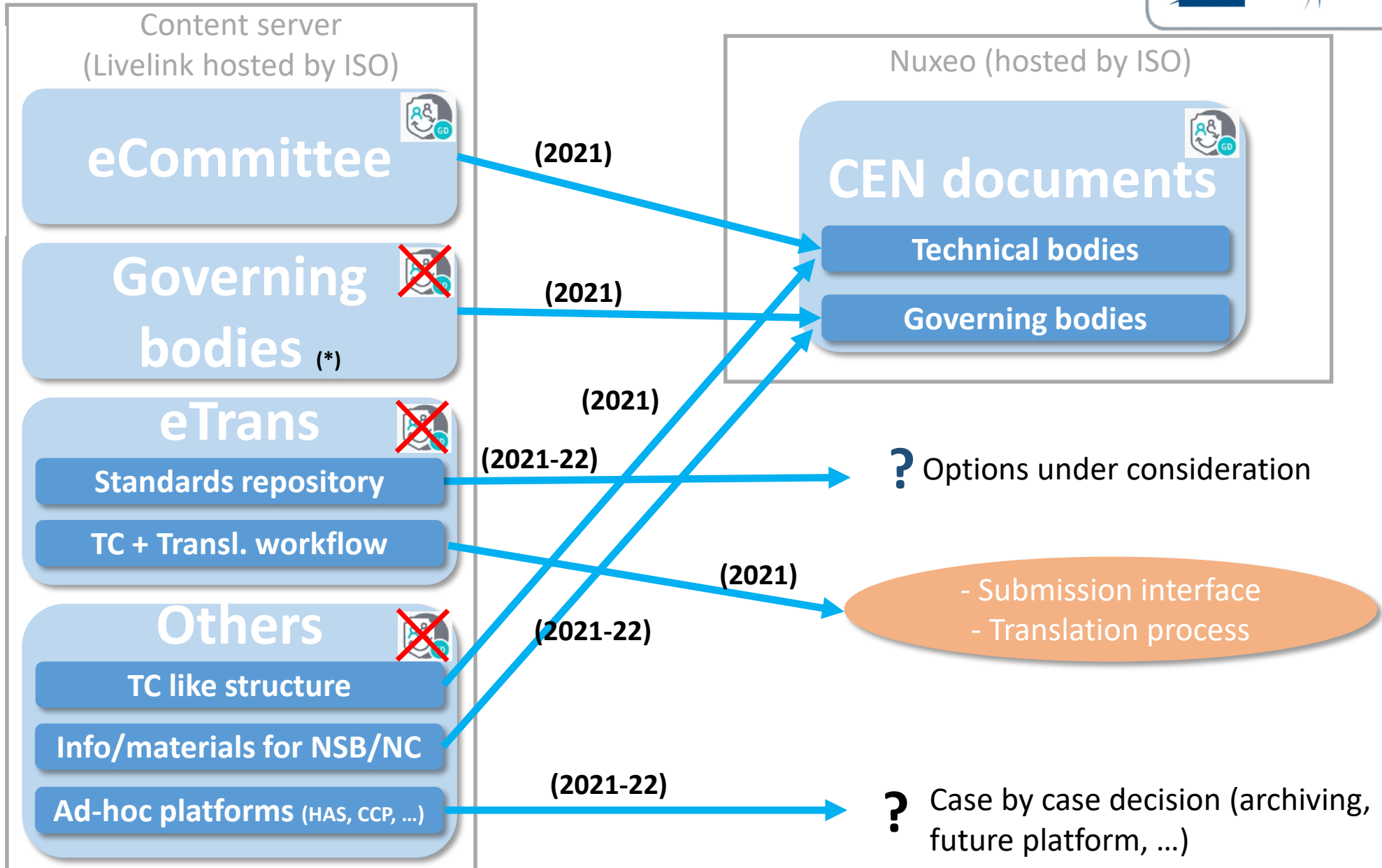 **https://www.cencenelec.eu/aboutus/ourservices/Training/ITtools/Pages/default.aspx**

COVID

- Full time teleworking – No major change related to teamwork, projects continued and reprioritized

- Additional IT equipment investment for homeworking

- Deployment of SMART working (technology pillar) has allowed staff and subcontractors to work from anywhere mitigating the risk of business disruption

- New and unforeseen projects needed such as anticipating and boosting virtual meetings (ZOOM) and collaborative working (TEAMS)

- Unforeseen project: set up online voting tool for AG decisions during virtual meetings

2. PROJECTS STATUS

2.1 CEN - Replacement of Livelink

Replacement of Content server

Content server
(Livelink hosted by ISO)

eCommittee

Governing bodies (*)

eTrans
- Standards repository
- TC + Transl. workflow

Others
- TC like structure
- Info/materials for NSB/NC
- Ad-hoc platforms (HAS, CCP, …)

Nuxeo (hosted by ISO)

CEN documents
- Technical bodies
- Governing bodies

(2021)
(2021)
(2021)
(2021-22)
(2021)
(2021-22)
(2021-22)

? Options under consideration

- Submission interface
- Translation process

? Case by case decision (archiving, future platform, …)

CRITICAL

(*) CEN and joint governing bodies

8

2.2 CEN - eCommittee

eCommittees Main Features

▶ Platform purpose :

Support Standardization work by allowing Committee members to exchange work Documents in a controlled environment

➢ Role-based access control

➢ Structured document library

➢ PDF rendition of Word documents and Coversheet generation

➢ Automated handling of Document N-Numbers

➢ Automated N-Document Notification tool via eMail

From eCommittees … to … CEN Documents

Why Change ?

▶ Opentext Content Server reaching End of Support

▶ Opportunity to leave an outdated technology

▶ Overcome problems and additional work caused by committees hosted on several different platforms

▶ Focus on Document management

▶ Implement new features

▶ Modern user interface for streamlined interaction and ease of use

CEN Documents – Main Benefits

► "SD Docs" : Common environment for all CEN and ISO committees → Coherent user experience at all levels
  ➢ no more AFNOR, DIN specific hosting

► New technology (Nuxeo, ElasticSearch, …)
  ➢ Modern User Interface
  ➢ Greatly enhanced Document Search tool

► New / Improved features :
  ➢ Improved metadata handling on N-Documents
  ➢ Links to other Apps in metadata (Balloting, Meetings, Projects)
  ➢ Pdf rendition (Word, Excel, Powerpoint, …) + on-line Preview
  ➢ Bulk Upload
  ➢ …

CEN Documents – Next Steps

▶ CEN Pilot → Jan 2021

▶ Bulk onboarding CEN Active Committees → Q1/Q2 2021:
  ➢ Chunk 1 : Committees hosted on CENTC (To be confirmed)
  ➢ Chunk 2 : Committees hosted at AFNOR (To be confirmed)
  ➢ Chunk 3 : Committees hosted at DIN (To be confirmed)

▶ 4th level and other Special groups (Coordination, …) :
  ➢ Out of scope : existing groups should fit in existing structures
  ➢ Business rules need to be defined first
  ➢ Major IT project to launch later with ISO → structural changes in
    ▪ Global Directory : new groups, roles to synchronize
    ▪ CEN Documents : specific rules to apply …

2.3 CENELEC – Meeting registration system

CENELEC Meeting registration

▶CENELEC requirements (as approved by members) provided to IEC CO on 2019-11-26

▶Development initially planned by IEC CO in 2020, postponed to 2021

2.4 CENELEC – IEC data stream

CENELEC – IEC data stream

▶ Use of the new IEC HAPI instead of the current "IEC data feeds" to manage automatically parallel IEC-CLC projects, i.e.
- Creation of new IEC-CLC project in CCMC database
- Update of project metadata

➢ Creation of the CENELEC work item at earlier stage
➔ from ACD stage at IEC

➢ Initial plan provided by IEC for the stages CD, CDV, FDIS and PUB will be imported into the CENELEC work item

▶ Development is ongoing

▶ Deployment foreseen by Q4/2020

2.5 CEN-CENELEC – Extended access

Extended role-based access

Since 5 October: access to Projex Online and QuickSearch (excepted access to BT decisions) extended to CEN & CENELEC experts

> ➢ in accordance with CEN/BT C167/2016 and CENELEC/BT D155/C067

▶Change in the **Authentication**
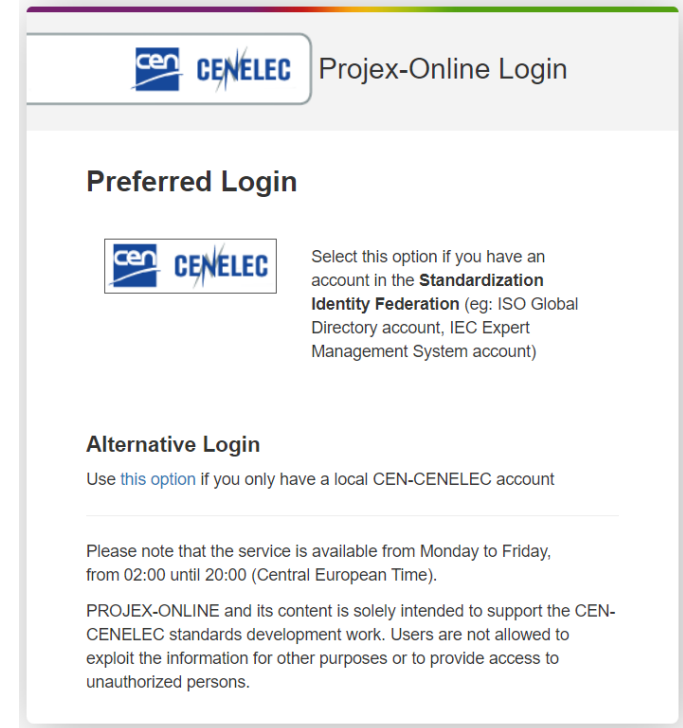
= the process of verifying the identity of a user

▶ Users are encouraged to authenticate themselves using the option "Preferred login" if they have an account in the Standardization Identity Federation (SIF)

▶ The option "Alternative login" will be removed in Q1 2021

CEN CENELEC Projex-Online Login

Preferred Login

CEN CENELEC — Select this option if you have an account in the **Standardization Identity Federation** (eg: ISO Global Directory account, IEC Expert Management System account)

Alternative Login

Use this option if you only have a local CEN-CENELEC account

Please note that the service is available from Monday to Friday, from 02:00 until 20:00 (Central European Time).

PROJEX-ONLINE and its content is solely intended to support the CEN-CENELEC standards development work. Users are not allowed to exploit the information for other purposes or to provide access to unauthorized persons.

Extended role-based access

▶ Change in the **Authorization**

= the process of determining who is allowed to do what

▶ Based now on roles defined in the CEN Global Directory (GD) and CENELEC Expert Management System (EMS)

▶ Roles giving access to Projex Online :

In GD	In EMS
CEN Secretary	Secretary
CEN Secretary Support Team	Acting Secretary
CEN Chairperson	Assistant Secretary
CEN Chairperson Support Team	Chair
CEN Consultant	Convenor
CEN Document Monitor	Member
CEN Technical Programme Manager	NC Official
CEN Twinned Secretary	National Participant
CEN Vice-chairperson	
CEN Committee Member	
CEN Convenor	

Extended role-based access

▶Phase 2: Performance improvement

▶In Projex Online, implementation of a new, super-fast search engine to support

▶ "Complex search"

▶ Excel export

Extended role-based access

Benefits:

➢ CEN & CENELEC Experts have access to same level of information on standardization projects as the TB officers.

➢ Access is linked to the role in CEN GD and CENELEC EMS ➔ users management and access request by NSBs/NCs is no longer required.

➢ Faster response of the complex search and data export in excel.

Extended role-based access

▶Planning

  ▶Phase 1: CEN/CENELEC experts have access to Projex Online (since 5th October 2020)

  ▶Phase 2: Performance improvement (mid-December 2020)

  ▶Phase 3 (Q1 2021):

    ▶CEN & CENELEC TC/SC secretaries and chairs will have access to QuickSearch (BT decisions)

    ▶SIF as only authentication method

2.6 CEN-CENELEC – Harmonized API (HAPI)

CEN-CENELEC – Harmonized API (HAPI)

▶ Phase 2: API on Committee Working Documents

➔ Official documents circulated to the TB member

▶ ISO and IEC ready for deployment in production (Official communication to come)

▶ **CEN:** HAPI linked to the eCommittee migration to NUXEO (foreseen for 2021 Q1)

▶ **CENELEC**: requires a specific development from IEC. Estimation and planning to be provided by IEC CO

(Harmonized) API – Next steps

▶ **Harmonized API:**

New Harmonized API for	Forecasted
Projects and publications	available
Committee Working Documents	2021
Identities (Person, Organisation, Committees) and Roles	2021
Meetings	2022
Ballots	2023

▶ **Specific European feeds: 2021**
- Standardization Requests (mandates)
- Directives
- Infopro

(Harmonized) API – Next steps

▶ **Granular access rights : 2021**

- Current HAPI Gateway developed to be open in priority to the CEN and CENELEC members.

- The extension of the API gateway to other stakeholder will require the implementation of more granular access rights.

  Examples:

Type	Example	CEN metadata	CENELEC metadata	CEN standard documents	CENELEC standard documents
Affiliate, CSB	DPS, BELST	Y	Y	N	N
European Counsellor	EC	Y	Y	N	N

Discontinuation of existing data feeds

2020-12-31:

➢ CENELEC delimited text files

Location:	ftp://ftp.cenelec.eu/DB_extracts/

➢ CENELEC PROJEXDATA (legacy)

Location:	ftp://ftp.cenelec.eu/DB_extracts/

2021-12-31:

➢ CENELEC PROJEXDATA EVENTS

Location:	ftp://ftp.cenelec.eu/DB_extracts/PROJEXDATA_EVENT/

➢ CEN PROJEXDATA EVENTS

Location:	https://cen.iso.org/livelink/livelink?func=ll&objId=5510985&objAction=browse&viewType=1

2.7 CEN-CENELEC – Workflows

WorkflowGen

WorkflowGen is a **web-based business** and **process management application**. It enables to automate business processes with a visual interface and offers an intuitive user experience.

Workflow benefits

▶ The process is integrated in the workflow

  ▶ in a workflow task, it is only possible to perform relevant actions and the different steps of the process are presented to the user in order.

▶ Complexity of the process moved to the system

  ▶ Differences between organizations, specificities of some deliverables, e.g. Harmonized Standards,

▶ Simplified database update interface

  ▶ Only the relevant data is displayed for the user

▶ Automation

  ▶ preparation of workspace, extraction of files, renaming of files, values pre-filled, pre-drafting of emails, notifications...

JointJS
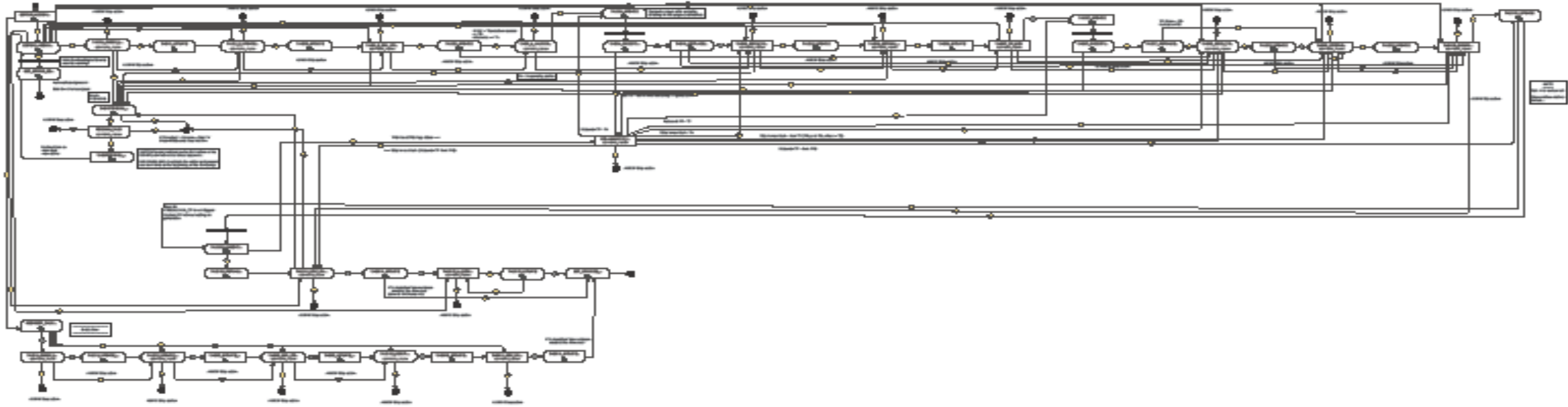
Production workflows - status

▶Late & on-time translations (CEN & CENELEC)
    Further improvement planned in 2021

▶Incoming drafts & final drafts (CEN)
    New release on 2020-12-02
    Analysis on improvement in 2021

▶Finalization of publications (CEN & CENELEC)
    CEN workflow being tested
    CENELEC workflow development to start early 2021

BT workflow - status

▶ **In production since August 2020**

▶ **Analysis on improvements in 2021**

▶ **New release in 2021**

Governance workflow - Timeframe

Month 5   6   7   8   9   10   11   12   1   2   3

2020

2021

Q2   Q3   Q4   Q1

Phase

1   2   3   4   5

1. Initiation phase
2. Analysis phase
3. Development phase

4. Testing/fine-tuning phase
5. Deployment
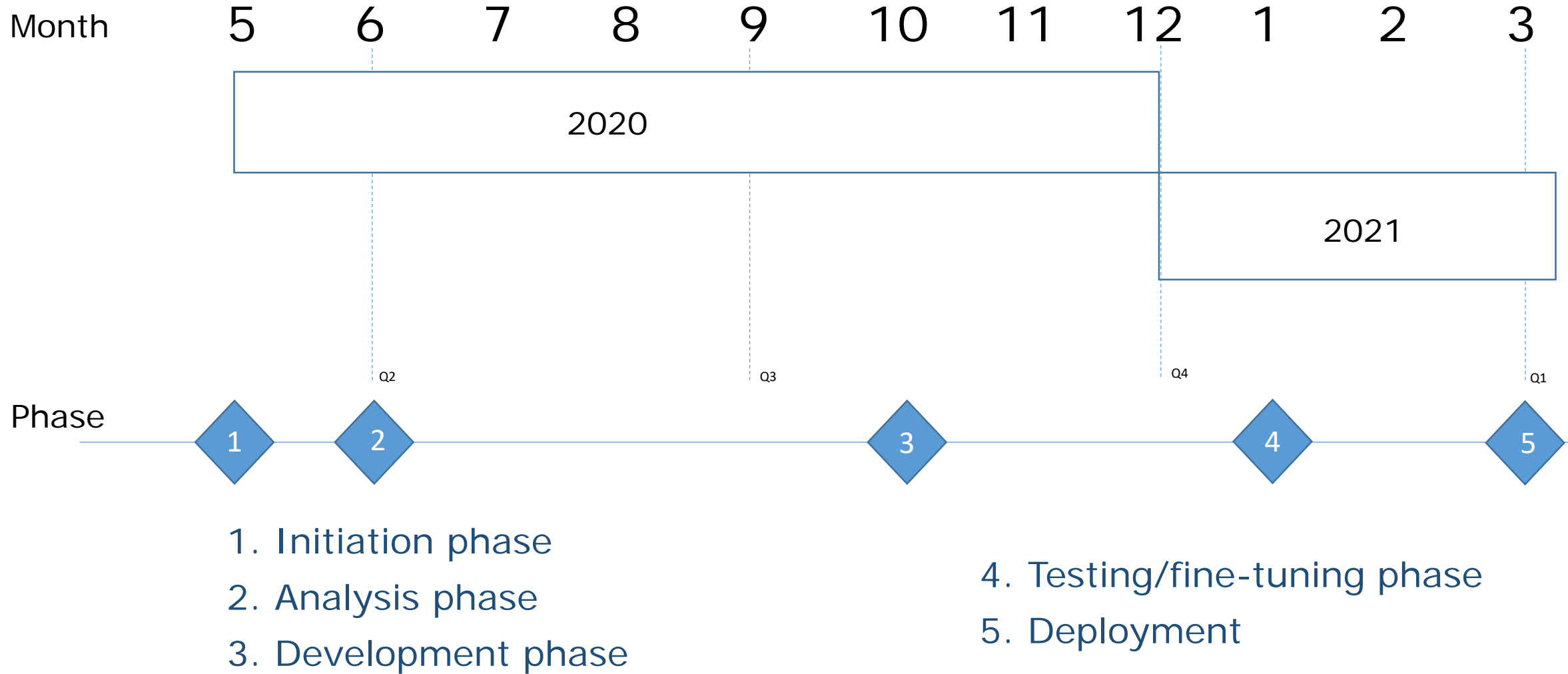
2.8 CEN-CENELEC – Online collaborative authoring

Project vision

Creating an online environment for standards developers in which they can work efficiently and collaboratively, and lay the foundation for new value-added products and services for the world of tomorrow

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Standards development stages

Online standards authoring
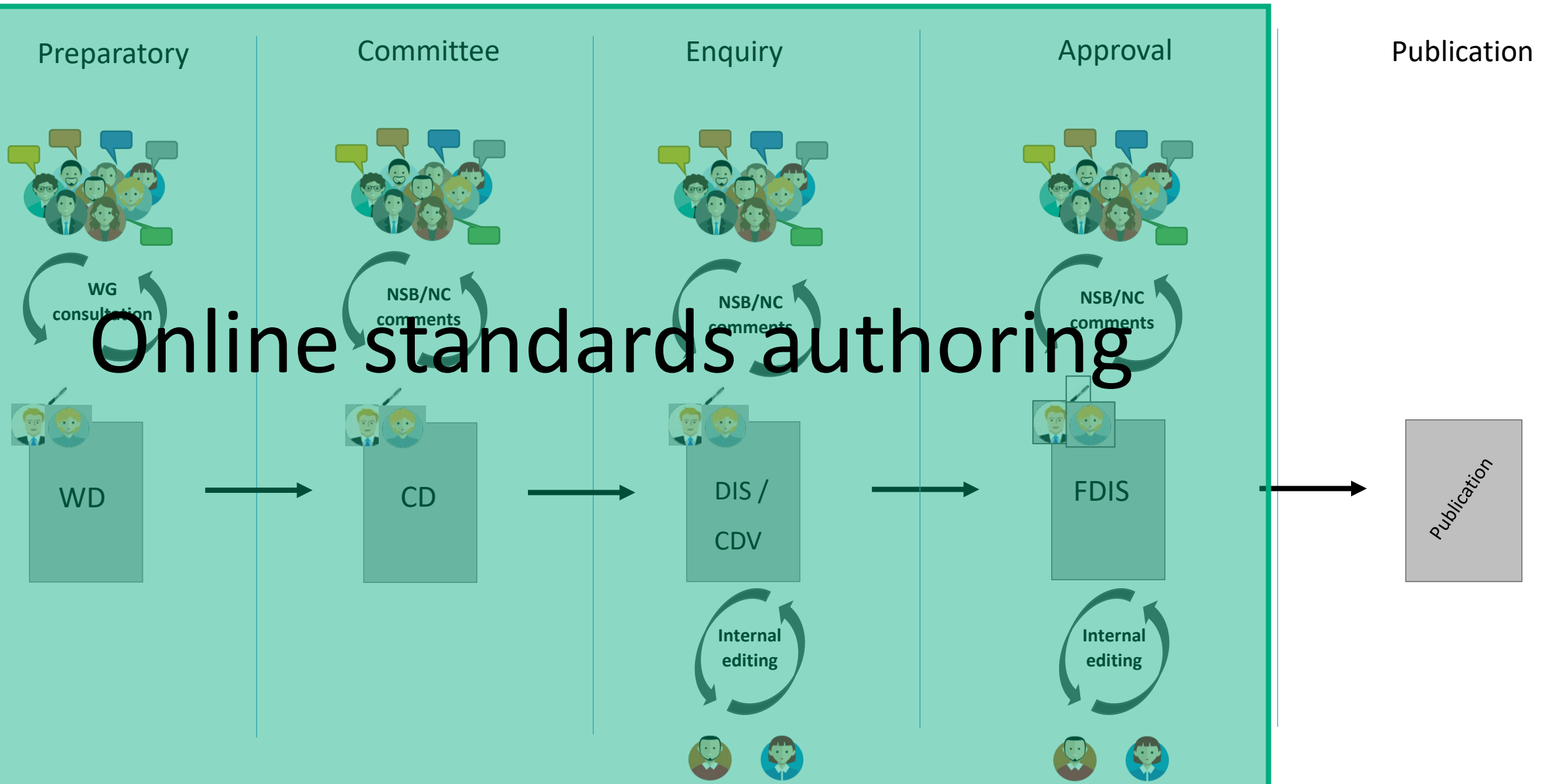
Why change?

The **tools** we use today to draft standards have **remained unchanged** from those used many **decades ago**.
To continue to publish standards in time for the needs of tomorrow we need:

- ✓ More organized and **efficient collaborative work** from the start of the standards authoring process
- ✓ **Improved/streamlined content quality** at the early stages of standard development
- ✓ **Enhanced overall quality of content**
- ✓ **Simplified commenting** and final compilation of **resolutions**
- ✓ A content development system based on Standards (i.e. **NISO STS**)
- ✓ **Harmonized IEC/ISO standards development and processes**

3 standards development building blocks in 1 editor:

Authoring: *creation of content for a document*

Commenting and comment resolution: *commenting on a document by NSB/NC during key standard development stages & resolution of comments by the committee/WG*

Editing: *Review and revision of a document according to ISO/EC Directives Part 2, CEN/CENELEC IT part 3, and other applicable rules*

Online Standards Development – implementation timeline

Step 3

Internal editing

Step 2

Members commenting

Step 2

Members commenting

Step 1

Standards authoring & WG commenting

Step 1

Standards authoring & WG commenting

Step 1

Standards authoring & WG commenting

YOU ARE HERE

Online Standards Authoring available for all committees on a voluntary basis

| 2020 | OCT | 2021 | JUNE | 2022 | SEP | 2023 |

Full implementation

Two collaboration options

'All-in' authoring

Everyone in the WG can create content

Everyone in the WG can review content by commenting

'Selective' authoring

Selected people <u>only</u> can create content

Everyone in the WG can review content by commenting

In both options, selected people (Leader) will be able to validate (accept/reject content changes) content and resolve comments

Considerations regarding collaboration during pilot

There is currently no way to set 'authoring periods' or 'commenting periods' in the system to indicate to others in the WG that the document should no longer be authored or is not yet ready for commenting.

Therefore, good communication will be key to successful collaboration:

✓ Decide with your working group on a communication channel to indicate the content of a specific clause or of the full document is ready for commenting or comment reviewing

✓ A code of conduct should be reinforced from the start of the collaboration

What you must consider...

❖ **Work in progress** – not all features will be fully developed from the start

❖ We'll be needing **regular feedback** to get the features right/relevant for your work

❖ **Many new features will be added along the way**, such as spell checking according to IEC/ISO specific rules, content checking to ensure document complies with ISO/IEC Directives Part 2, CEN/CENELEC IR part 3, etc…, improved change tracking

❖ **Limited output in Word/pdf** (will need to be processed by ISO)

❖ **Member commenting and comment resolution online not yet available**

Pilot phase – Process

Authoring	Freeze & Generate Word	Handling through CCMC production chain	Next steps (WG, TC, ENQ)
WGs	ISO CS	CCMC	CCMC or WGs

Working group

Hosted by **ISO**
FONTO**XML**
XML DB
Assets DB

XML

Hosted by **ISO**
Typéfi
typefi.com

W

CCMC
eXtyles

W
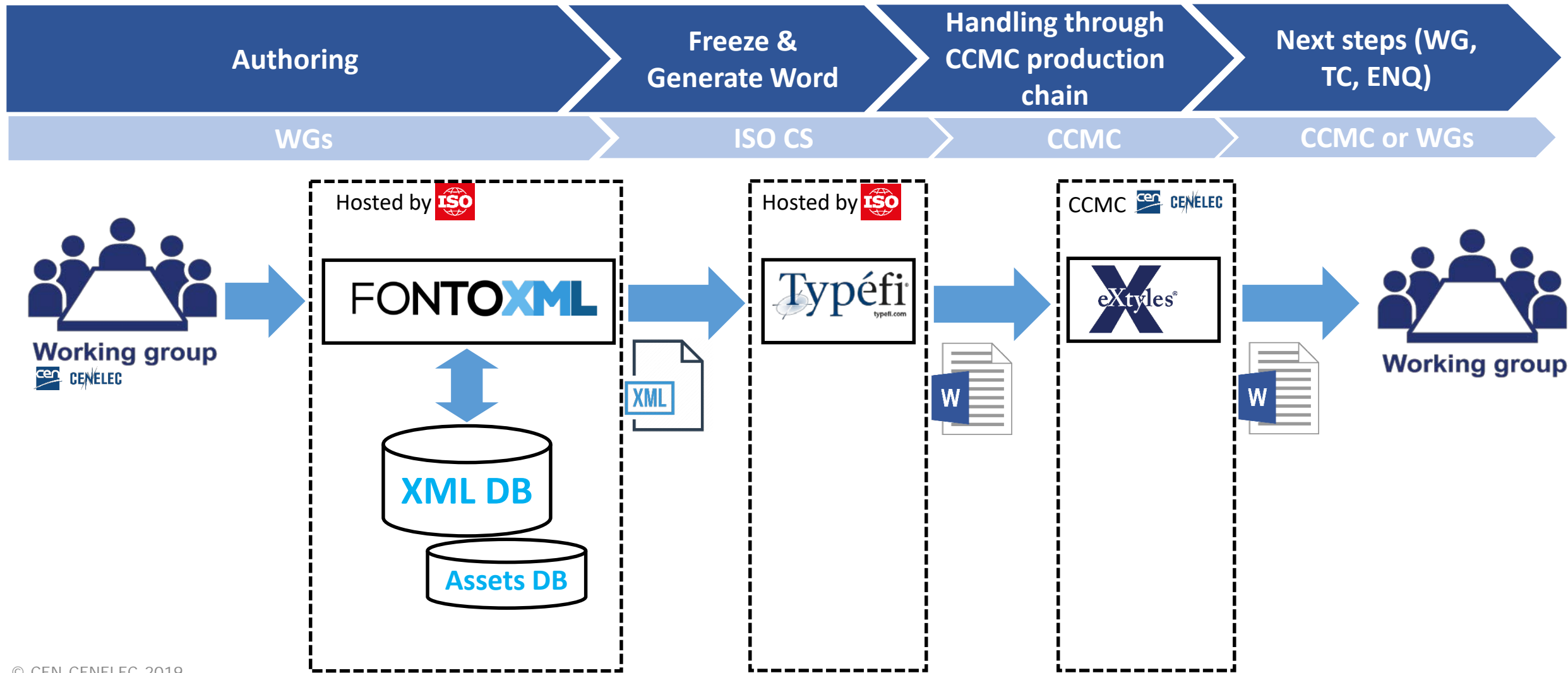
Working group

CEN and CENELEC pilots

CEN-CENELEC Technical body and Working Groups	Work Item (WI)
CEN/TC 250/SC 3	prEN 1994-1-2 (WIN=00250218)
CEN/TC 442/WG 6	prEN xxxx (WIN=00442027)
CLC/TC 9X/WG 28	prEN 50716 (WIN=72410)
CLC/TC 14/WG 32	prEN 50708-1-1 (WIN=xxxxx)
CEN/TC 278/WG 8	prCEN/TS 16157-10 (WIN=00278552)

➔ **Pilot started on 2020-11-17**

2.9 Web site revamping

Web sites revamping - background

▶ Approved by CEN and CENELEC Cas (CEN/CA 27/2020 & CLC/CA 155/14)

▶ Improved design, easier navigation

▶ CEN-CENELEC public web site

▶ CENELEC experts area (applications portal)

▶ CEN experts area (applications portal)

▶ Detailed standardization project data available from Projex Online (open to all experts)

Web sites revamping - Planning

▶ BOSS web sites:
- ❑ New design
- ❑ No change in the content or structure
- ❑ New features: Subscription to latest update, latest update page
- ❑ Available 2020/12

▶ CEN-CENELEC public web site+ CEN & CENELEC experts portal page:
- ❑ Planned for 2021/05

2.10 XML-based CCMC production chain

XML-based CCMC production chain

▶ Solution to generate PDF out of XML selected
  ❑ Currently the quality check based on the HTML rendering of the XML is not satisfactory
  ❑ New solution based on PDF will be deployed in 2021

▶ Investigate a solution to generate proper MS Word version from XML
  ❑ Generation of a Word version will be mandatory during the initial phase of the Online Authoring deployment and Word used by members (to be investigated)
  ❑ Possible solutions: Typefi, Adobe PDF to Word conversion, le-tex, ...

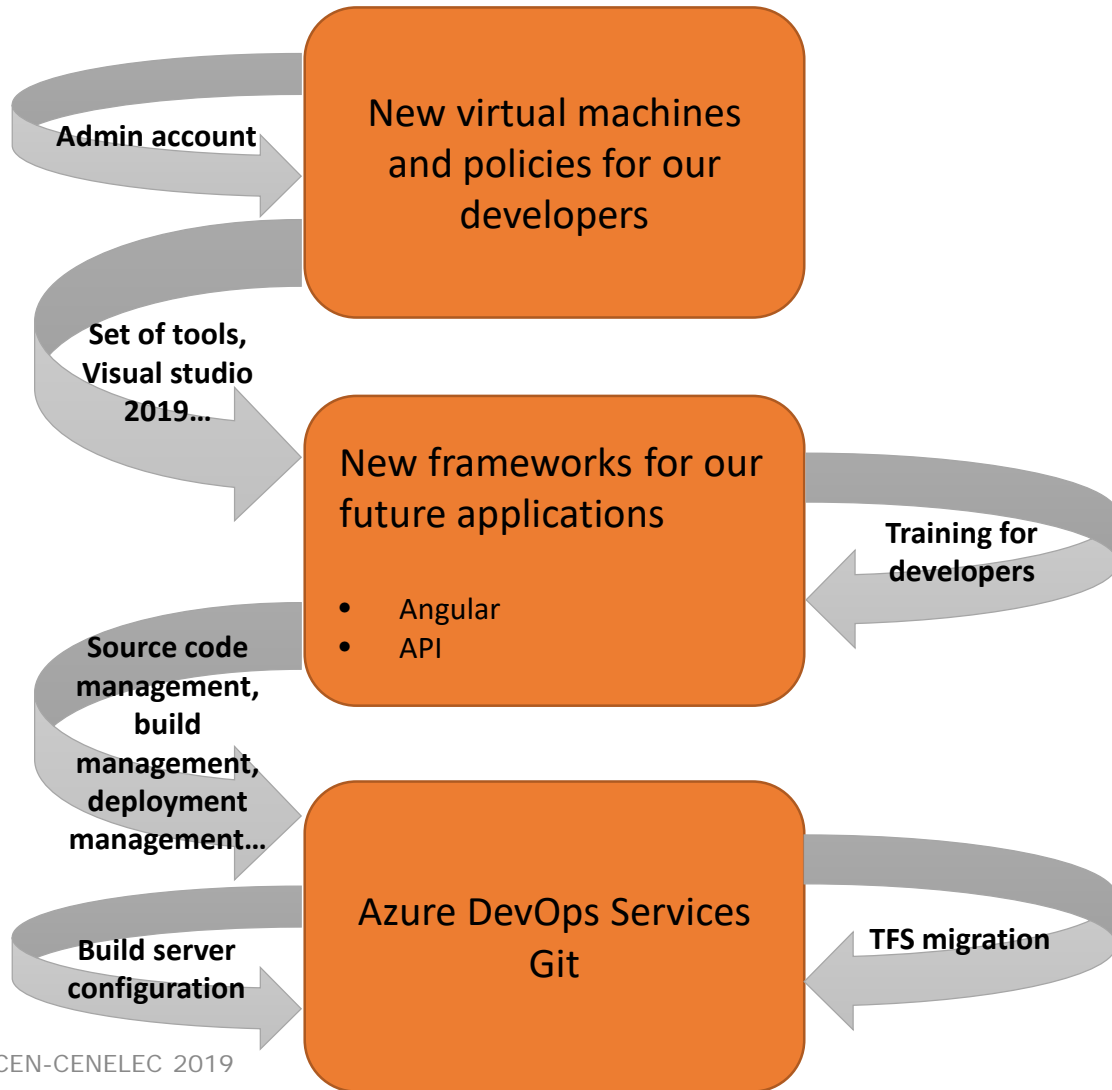▶ Anticipate impacts on CCMC production chain

2.11 CEN-CENELEC – New CCMC development environment

Even on a small development team, we are putting in place a new development environment to:

- Improve developer productivity
- Improve software development quality
- Improve customer satisfaction
- Improve collaboration and communication
- Get a faster delivery of applications
- Get a faster problem resolution

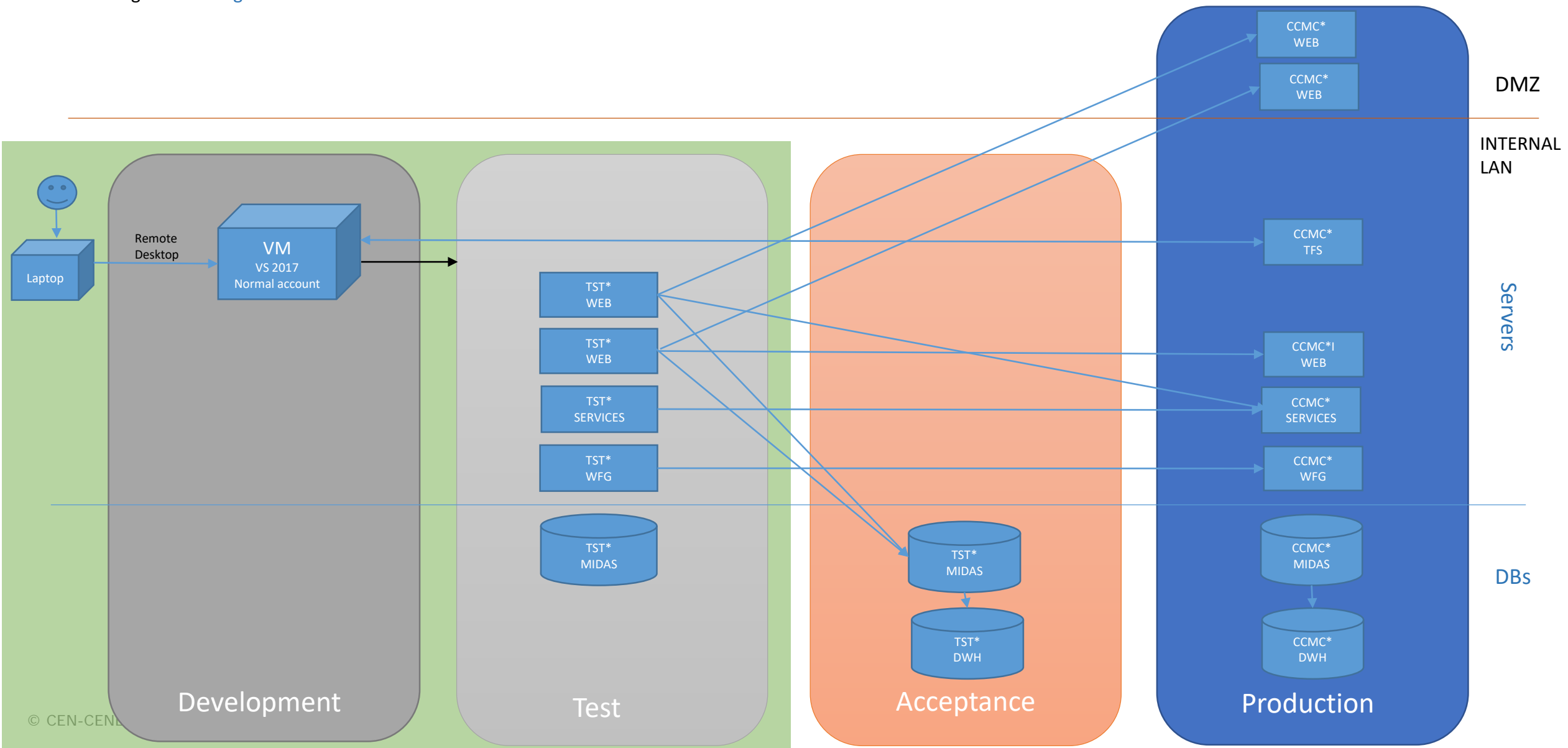# New CCMC ecosystem for the applicative development

Development

New virtual machines and policies for our developers

Admin account →

Set of tools, Visual studio 2019… →

New frameworks for our future applications

- Angular
- API

← Training for developers

Source code management, build management, deployment management… →

Azure DevOps Services Git

Build server configuration →

← TFS migration

Infrastructure

Create new servers and VLANs →

New DTAP environment

- Development
- Test
- Acceptance
- Production

← Migrate all applications on new servers

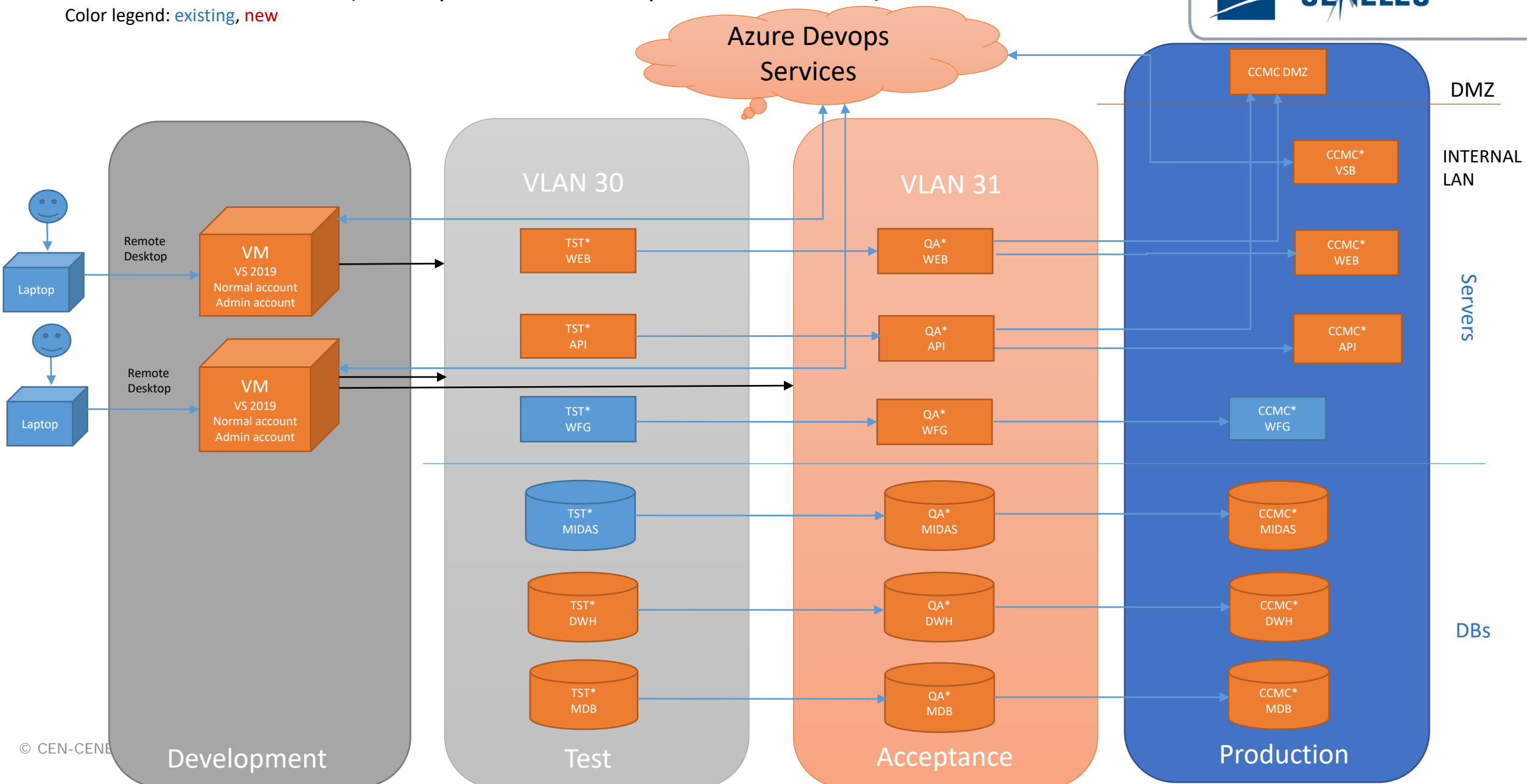Documentations, deployment procedures →

← Migrate old servers on new VLANs

Old DTAP Architecture (Development, Test, Acceptance, Production)

Color legend: existing

New DTAP Architecture (Development, Test, Acceptance, Production)
Color legend: existing, new

3. FUTURE PROJECTS

3.1 CEN-CENELEC – Submission Interface

CEN-CENELEC submission interface

- **Currently**
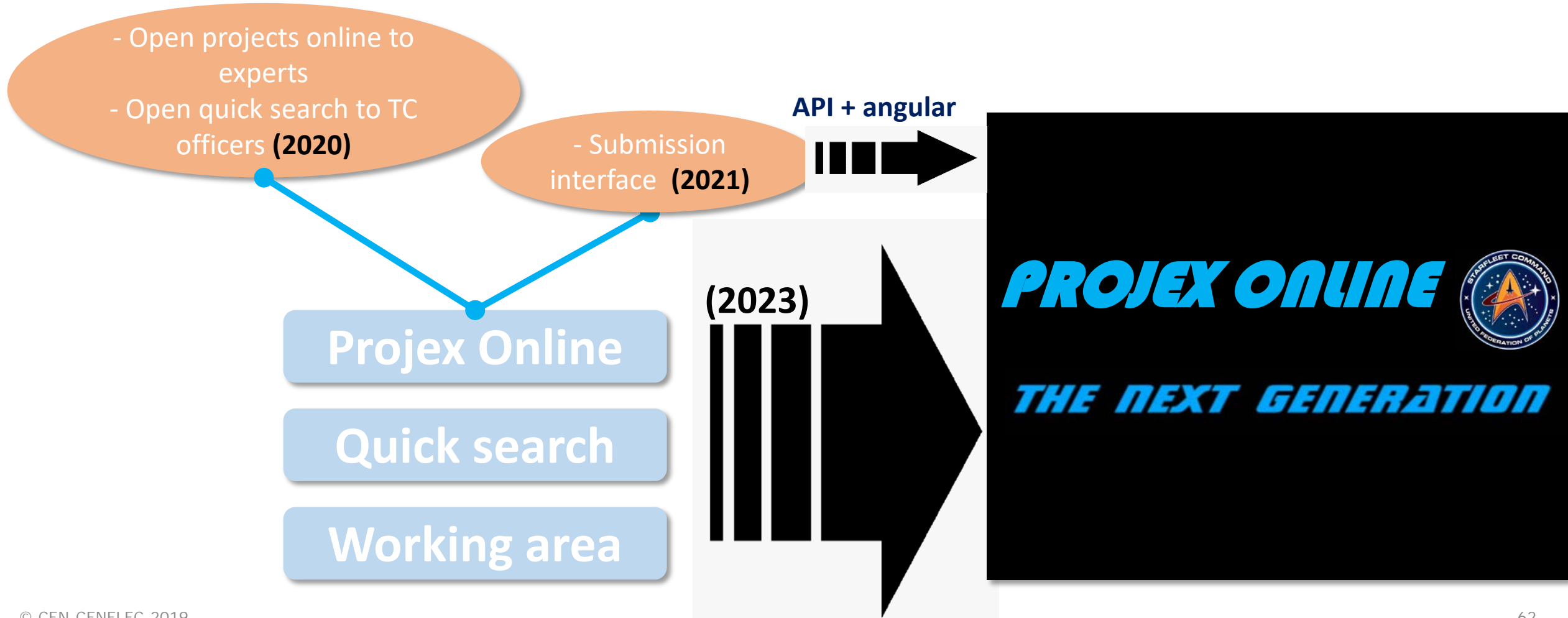 - CEN: upload in eTRans folders (Livelink)
  - CENELEC: Email

- **Weak points:**
  - Manual process (resource consuming, prone to errors)
  - Low transparency on the process status (email sent to TC secretary only when not validated)
  - Traceability, monitoring and follow-up problematic (email based)
  - No validation up-stream
  - No possibility to capture relevant metadata

- CEN-CENELEC BT decision approving the development of "submission interface" for the submission of standardization documents by CEN and CENELEC technical body Secretaries to CCMC

3.2 CEN-CENELEC - Projex Online next generation

CEN-CENELEC Projex Online next generation

- Open projects online to experts
- Open quick search to TC officers **(2020)**

- Submission interface **(2021)**

API + angular

Projex Online

Quick search

Working area

(2023)

3. Q&A

4. FUTURE WEBINARS & SUGGESTIONS