

European Standardization Organizations

# Workshop: Stakeholder Group **Developers**, including those in Open Source communities

2021-10-13 | Project 4: Open Source Solutions

# Agenda

- Welcome (5 mins)
- Project summary (15 mins)
- Technical solutions ( 20 mins )
- Processes ( 20 mins )
- Participation and Funding (20 mins)
- Licensing and IPR (20 mins)
- Next steps (10 mins)

# Welcome

Amanda Saunders | BSI (UK) | Workshop host

## Target audience

- ▶ Software developers from commercial businesses and OS communities

## Goals of today's session

- ▶ Explore incentives and motivation for developers, including those from Open Source communities, to participate with standardization
- ▶ Investigate how standardization can benefit from the skills, tools and Agile development processes from Open Source Communities via joint participation on CEN-CLC Open Source Solutions.

# Other upcoming sessions

Date & Time	Target Audience	Topics
Tue 19 Oct 2021 from 10am to 12pm CET	<b>Members</b> (various departments, including standardization, publishing and legal)	Workshop – inc. processes, technical tools, licensing and commercials
Fri 15 Oct 2021 from 10am to 12pm CET	<b>Open source communities</b> (people who work at the community head offices)	Workshop – inc. processes, technical tools, licensing and commercials
Thu 14 Oct 2021 from 10am to 12pm CET	<b>Standards users</b> (those who aren't involved in standards making)	Workshop – inc. processes and technical tools

Current list and registration links are on the project site ([CEN/CENELEC](#))

# Presenters



Amanda Saunders  
BSI (UK)  
Workshop host



Shannon Kiernan  
CCMC (Europe)  
Joint Project Leader



Derek Roche  
SESKO (Finland)  
Technical Solutions Workstream Leader



Camille Cloître  
AFNOR (France)  
Operationalization Workstream Leader



Adrian O'Sullivan  
NSAI (Ireland)  
Business Model Workstream Leader



Jasnam Channe  
BSI (UK)  
Business Model Workstream Member



## Speak up 😊



- ▶ Informal (but efficient)
- ▶ Use the Q&A panel anytime if you'd like the project team to answer (answered later if we run out of time)
- ▶ Use chat freely if you don't need the project team to answer
- ▶ Zoom polls
- ▶ Silence ≠ agreement

## Materials afterwards

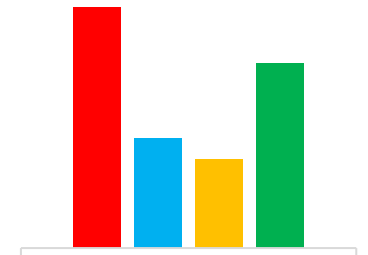
- ▶ Slides and Q&A on public project site ([CEN/CENELEC](#))
- ▶ Minutes via email to attendees
- ▶ Meeting not recorded



# Who is joining us today?



- ▶ Who do you work for?
- ▶ What type of skills/role do you have?
- ▶ Why did you decide to join?
- ▶ Is this your first session?





# Project summary

Shannon Kiernan | CCMC (Europe) | Joint project leader

# CEN Project 4 – OS Solutions (OSS)

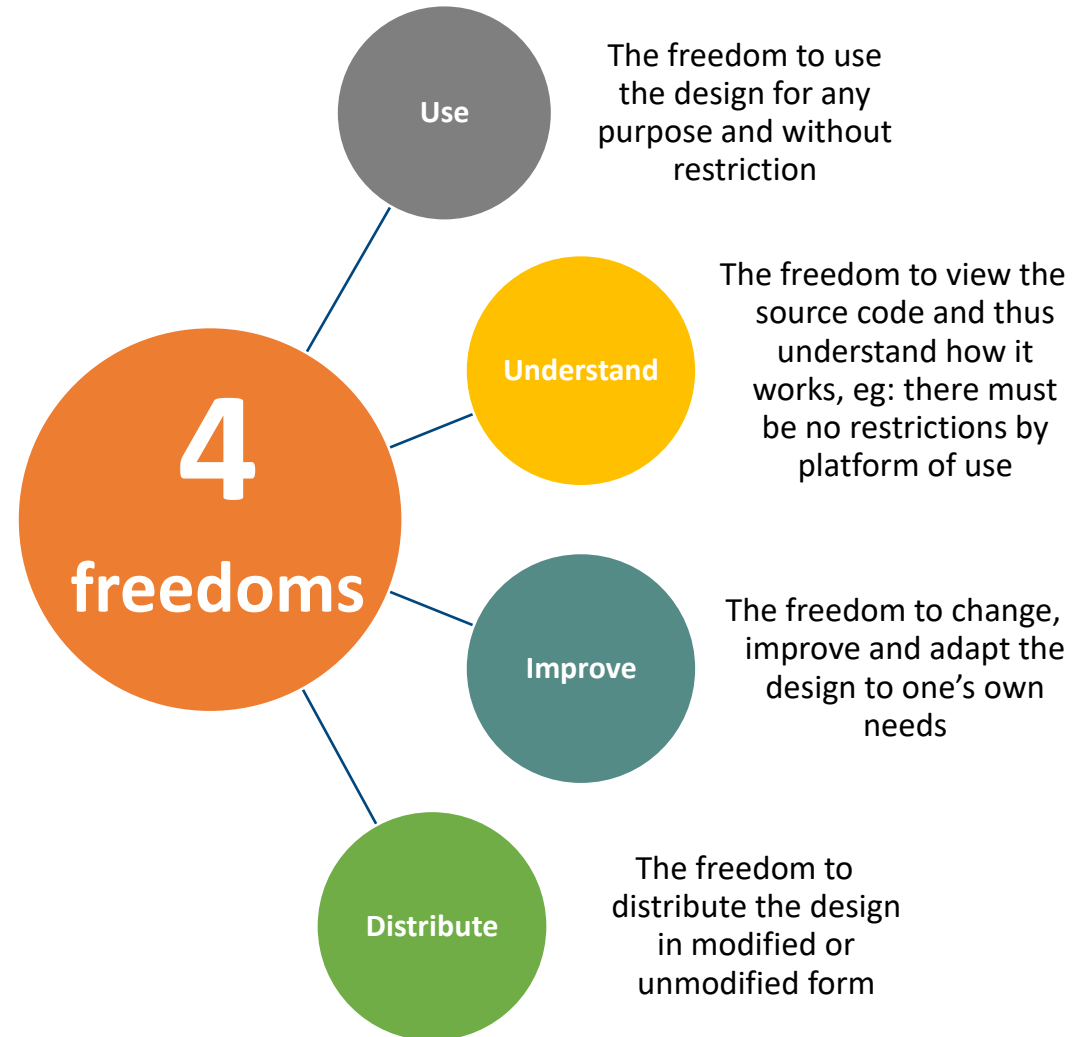
- ▶ To facilitate the incorporation of open source approaches into CEN-CENELEC's standardization activities in order to keep standards relevant in the digital era.

# Our understanding of 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



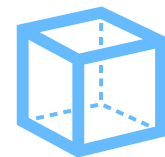
*A software tool where you import an invoice and the tool tells you whether it conforms with an EN*

## Industry 4.0



*Software to operate a sensor array that produces interoperable data in conformity with an EN*

## Hardware



*Design for a 3D printer that conforms with an EN*

## 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.

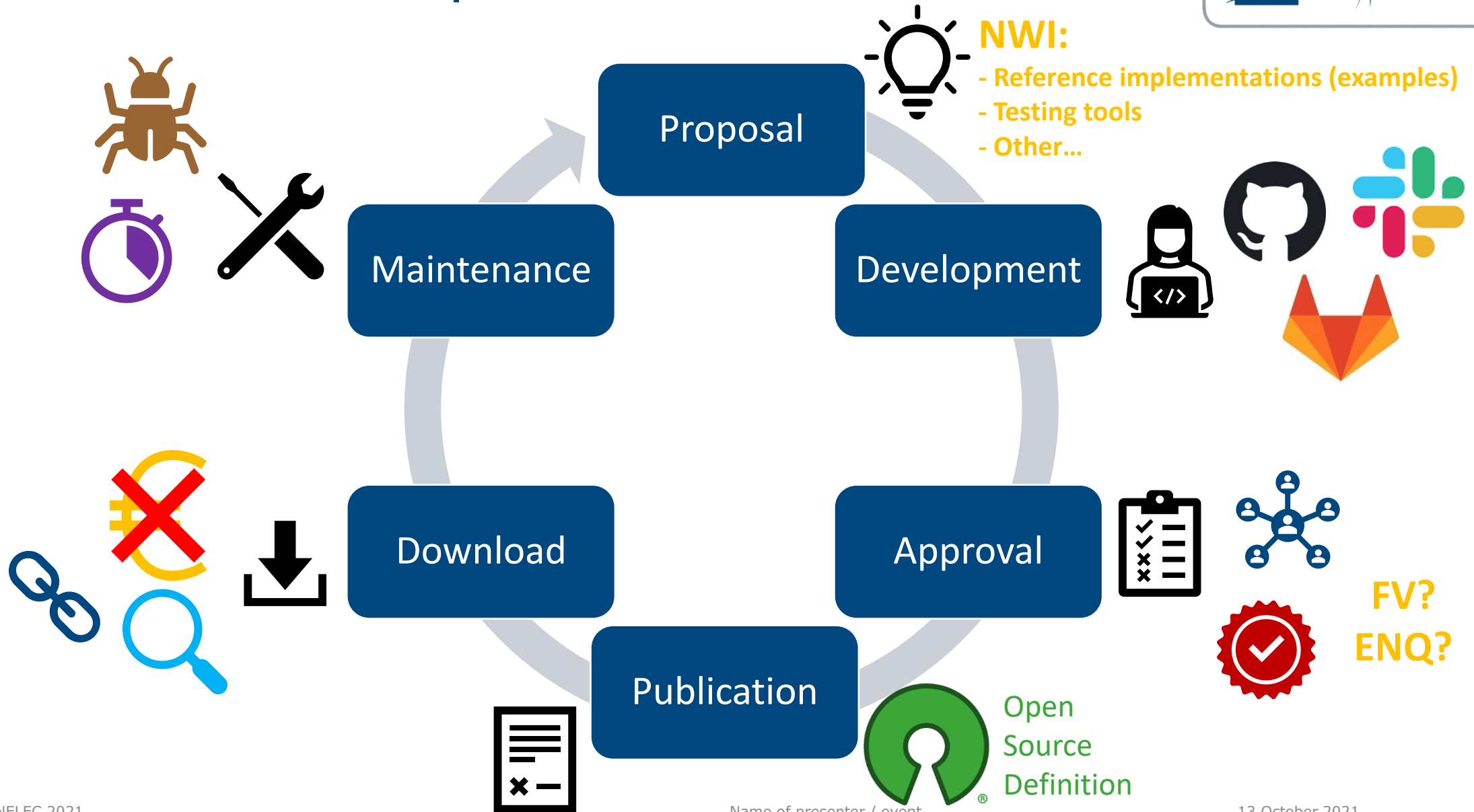
## You have to return/publish changes



**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



# To avoid confusion...

## In scope:

- ✓ First version of a framework for a new type of deliverable

## Out of scope:

- ✗ changes to deliverables that are already published

- ✗ changes to frameworks for existing deliverable types, eg: European standards (EN), technical reports (TR), technical specifications (TS)...



# Why is it important?



Demand from  
TCs



Growing  
segment



Benefits for  
society



Potential EC  
funding



Testing  
ground for a  
new business  
model &  
processes



Keep  
standards  
relevant for  
users



# Project timeline



# Technical Solutions

Derek Roche | SESKO (Finland) | Technical Solutions workstream leader

# The context & plan so far



- ▶ **Repositories & tools:**
  - ▶ Leverage existing tools
  - ▶ Cloud hosting → flexibility
  - ▶ Central CEN-CENELEC account
  
- ▶ **Metadata & discovery:**
  - ▶ Search via existing member websites
  - ▶ Link to repository (reference, not copy)

# Options being considered

## Pilot repositories

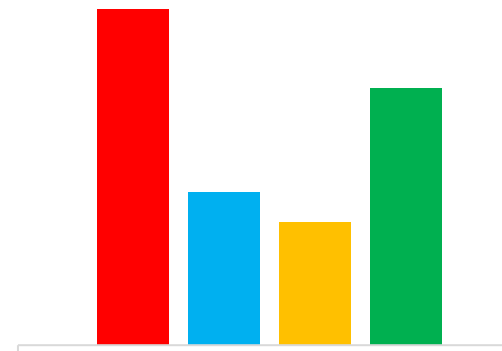
- ▶ GitHub 
- ▶ GitLab 

## Pilot communication tools

- ▶ Slack 

# Questions for you (Zoom polls)

- ▶ Do you have experience with open-source development environments?
- ▶ What repository would you like to use?
- ▶ How detailed should metadata be defined for the pilot project findings to be meaningful?
- ▶ Do you prefer cloud or on-premise repositories?



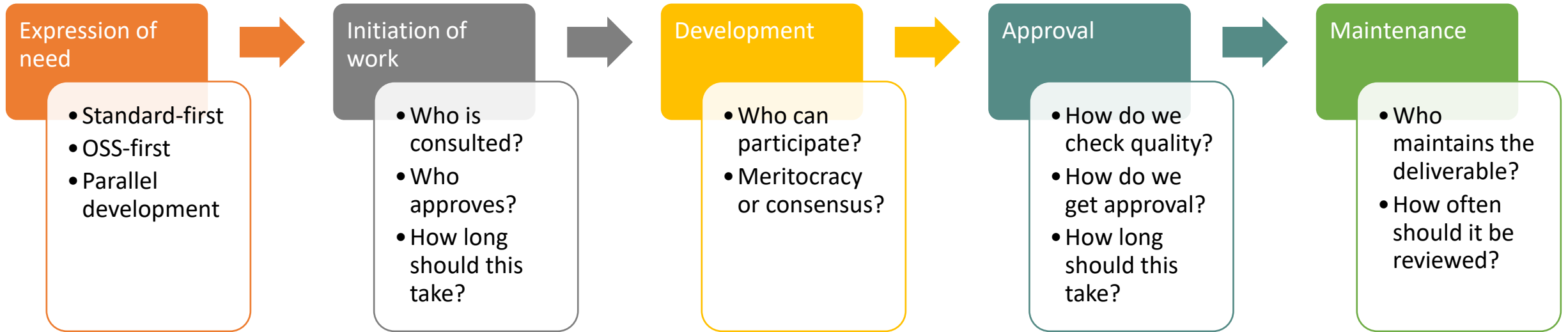
# Processes

Camille Cloître | AFNOR (France) | Operationalization workstream leader



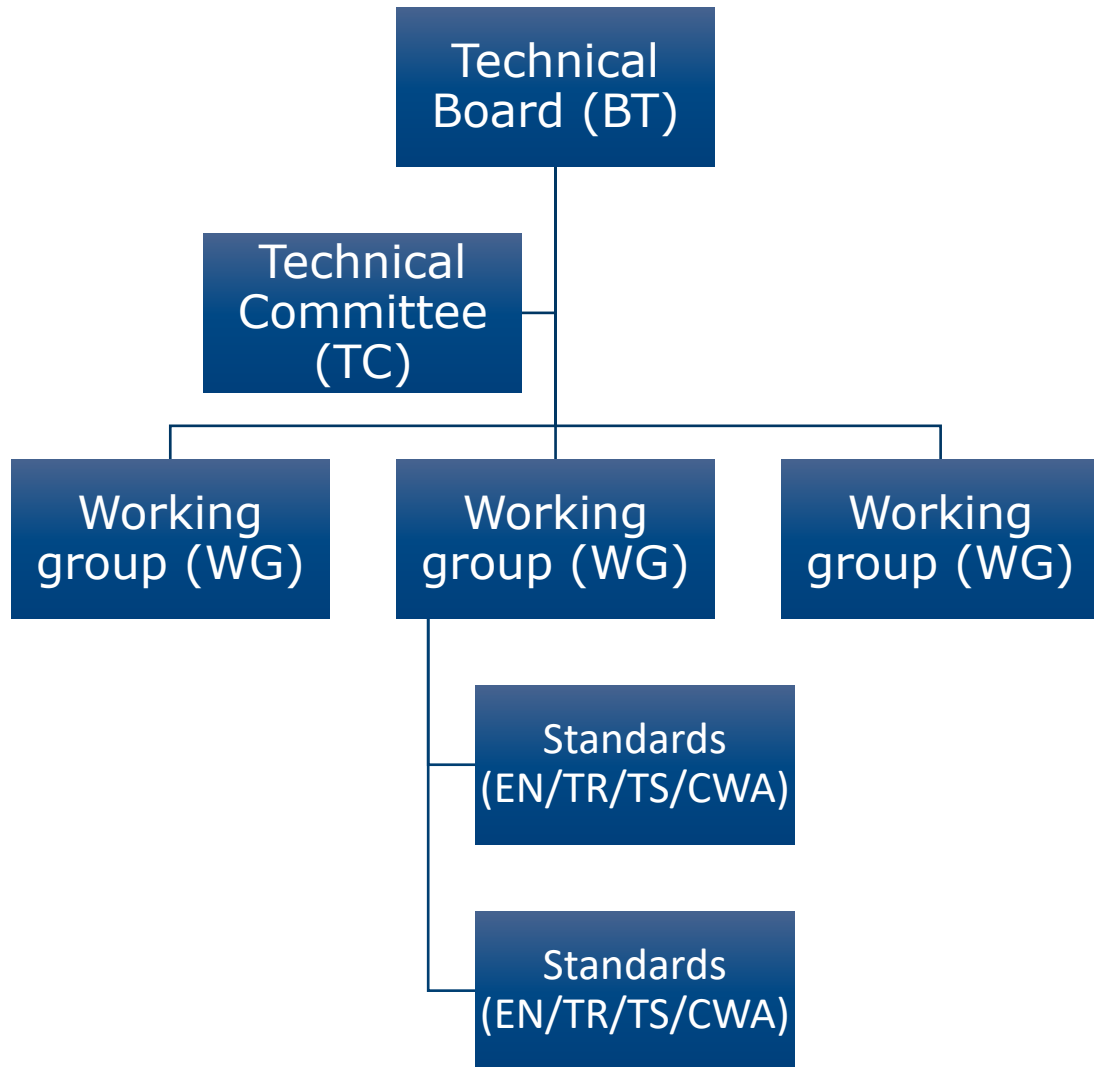
# The context

## Key questions:



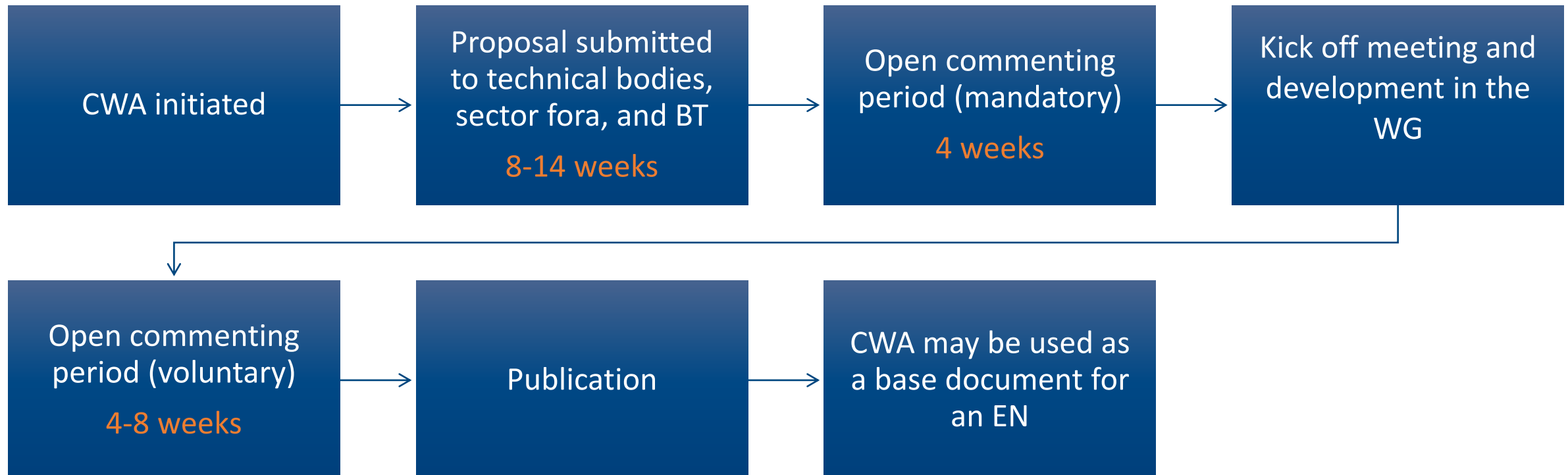
# What is the CEN-CLC standards process?

## Structure



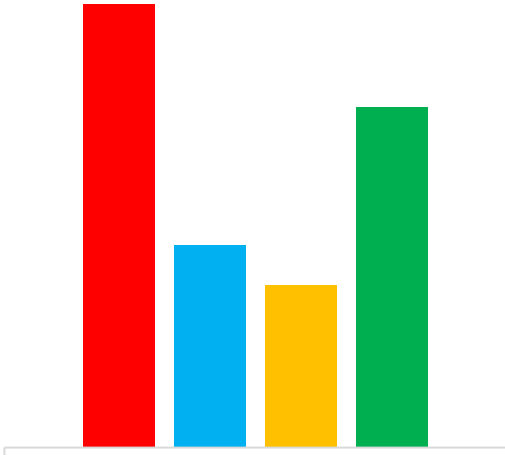
# What is the CEN-CLC standards process?

## Stages of standards development (CWA) 6-12 months



# Question for you

- ▶ What process stage do you think is most crucial for success?



# Participation and Funding

Jasnam Channe| BSI (UK) | Business Model Workstream Member

# The Context – Participation

- ▶ Explore the possible incentives and motivation for people from Open Source communities like you to participate within standardization.
- ▶ Investigate how Standardization can benefit from the skills, tools and Agile development processes from your Open Source Communities via joint participation on CEN-CLC Open Source Solutions.



# The Context – Funding

## Standards Community Funding Model

Income/Cost Types: Membership fees (NSBs, Companion Standardization Bodies, Affiliates, Liaisons & Partners), EC/EFTA revenue funding.

NSB: Income differs per stakeholder and region. E.g. % membership fees, sales of publications, state funding, certifications.



## Open Source Community Funding Model

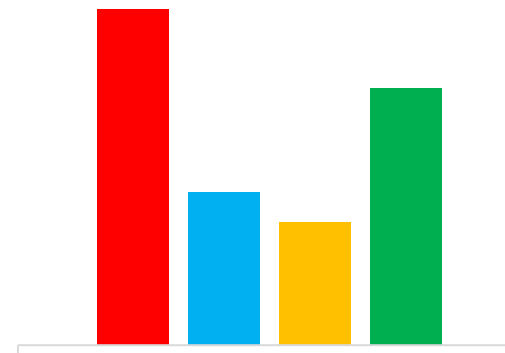
Open Source does not mean free in terms of money. OS Communities have costs to manage such as infrastructure, tools (CI/Compliance/Quality), staff (Program/Marketing/IT/IP etc.), Events, Websites. Foundations fund these costs via tiered Corporate Memberships & Events hosting.

How can these extra costs for the OSS project be offset against new potential incomes for both OS Communities and CEN-CLC members? How can we avoid impacting negatively on existing revenue models?



# Questions for you (Zoom poll)

- ▶ Have you ever participated in any CEN-CLC EN/TR/TS/CWA project team?
- ▶ Do you have any knowledge of CEN-CLC existing processes and policies?
- ▶ Whose platform would you prefer to participate in: CEN-CENELEC or an Open Source Foundation?
- ▶ Do you see yourself as a developer collaborating with Standards makers from CEN-CLC EN/TR/TS/CWA teams on OS Solutions?
  - ▶ Why or why not?



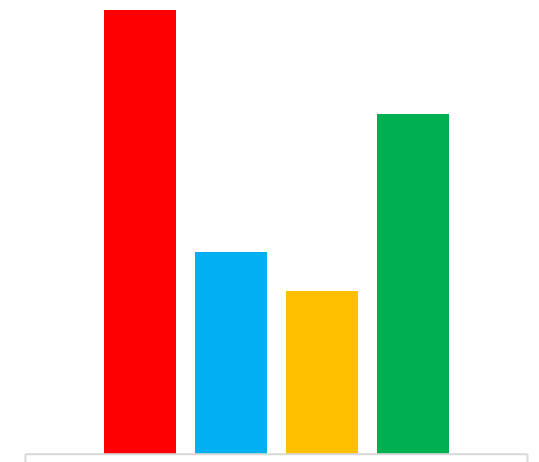
# Questions for you (Open discussion)

- ▶ What are pain points of the collaboration between OS and Standardization? What are the potential incentives?
  - What you feel would be a successful outcome?
  - Any recommended resources?



# Questions for you (Zoom poll)

- ▶ How do you feel Open Source Solutions incorporated with CEN-CLC Standardization would impact on your current funding model?
- ▶ Would you contribute financially &/or with your time to a Standardization project at CEN-CENELEC for which results will be shared under a free/open license? (eg: reference implementations)



# Licensing and IPR

Adrian O'Sullivan | NSAI (Ireland) | Business model workstream leader

# The context & plan so far



**Challenge** : Accommodate the IPR & Licensing Policies used by Open Source Communities, following the Open Source Definition, while also preserving the core principles of CEN-CLC IPR policies

## Licensing:

- ▶ Shortlist of recommended licences
- ▶ Identify conflicts with existing Policies

## IPR:

- ▶ Investigate if a CLA- Contributor License Agreement required?

# What is the CEN-CLC standards process?



## **Copyright, exploitation rights and other IPR**

- ▶ CEN and CENELEC are funded primarily by the subscriptions of its Members (National Standards Bodies).
- ▶ Copyright is exclusive to CEN-CENELEC.
- ▶ Copyright may be shared with other organizations (such as ISO, IEC and ETSI) on the basis of bilateral agreements that may be concluded with these organizations.
- ▶ Any party participating in the work of CEN-CENELEC is requested to draw attention to any known patent, or pending patent application, that may be considered essential for the publication.
- ▶ The patent holders declare their willingness/unwillingness to license the patents using the CEN-CENELEC Declaration Form.

# Options being considered

Licensing – currently examining:

- ▶ Apache 2.0
- ▶ MIT
- ▶ GNU GPL 2.0
- ▶ BSD 2.0 or 3.0
- ▶ European Union Public Licence 1.2
- ▶ List of licences endorsed by FSF and OSI



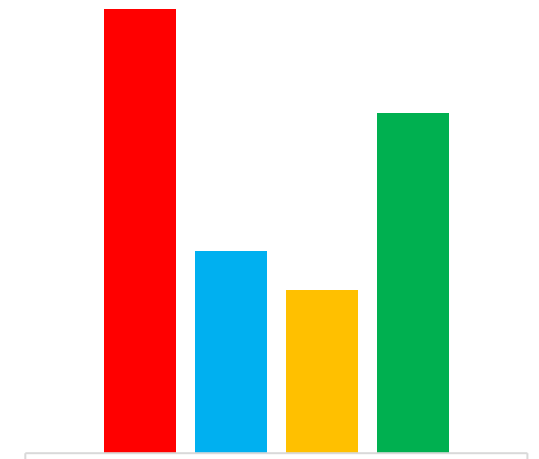
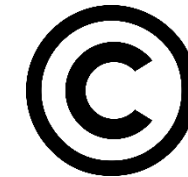
Funding – currently considering:

- ▶ Sponsorship, eg: EC
- ▶ Pay to participate, like CWAs
- ▶ Exploring how open source communities generate revenue



# Questions for you (Zoom poll)

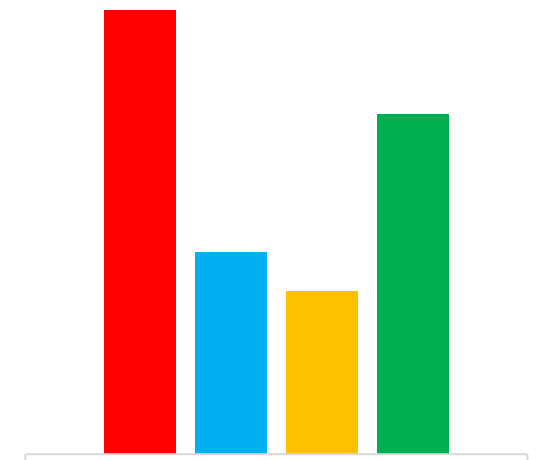
- ▶ Would you be willing to sign a CLA (Contribution License Agreement)?
- ▶ Would you be willing to assign Copyright of your OSS Contributions to CEN-CLC?
- ▶ How do you feel CEN-CENELEC's existing IP Policies may impact your ability to participate?
  - ▶ Why?





# Questions for you (Zoom poll)

- ▶ What OSI License Types do you think are most compatible with the CEN-CENELEC standardization system current IPR rules?
- ▶ Which of the following is your favourite OSI licence?



# Questions for you (open discussion)

- ▶ How do you see Open Source Solutions fitting in with the IPR rules within your existing Standardization activities within CEN-CLC?

# Next steps

Amanda Saunders | BSI (UK) | Workshop host

# Other upcoming sessions

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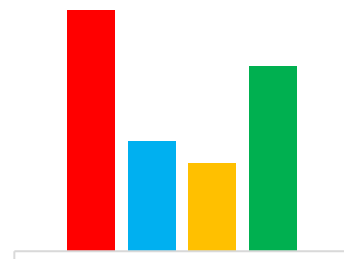
# Other activities

Are there 2 or 3 volunteers to represent **standards makers** at the Stakeholder Dialogue Forum on 27 October from 2 to 5pm CET?

Does anyone want to join the project team?

Do you want to be on the mailing list?

(Zoom poll)



Are there any additional activities we should plan?  
(open discussion)

Any pilot project ideas? Expressions of interest via our website:

<https://experts.cen.eu/key-initiatives/open-source-solutions/> or  
<https://experts.cenelec.eu/key-initiatives/open-source-solutions/>

Any other questions etc? Email [oss@cencenelec.eu](mailto:oss@cencenelec.eu)