

# Network Codes Overview

1<sup>st</sup> SEM RA/TSO Stakeholder Forum

Mark Lane

17 January 2013



# Overview of Current & Future Network Codes

## System Operation Related Codes

- Operational Security Network
- Operational Planning & Scheduling
- Load Frequency Control & Reserves
- Operational Procedures in an Emergency
- Staff Training

(OS)  
(OPS)  
(LFCR)  
(EP)  
(ST)

## Connection Related Codes

- Requirements for Generators
- Demand Connection Code
- HVDC Connection Code
- Connection Procedures

(RfG)  
(DCC)  
(HVDC)  
(CP)

## Market Related Codes

- Capacity Allocation & Congestion Management
- Forward Capacity Allocation
- Balancing Network Code

(CACM)  
(FCA)  
(BAL)

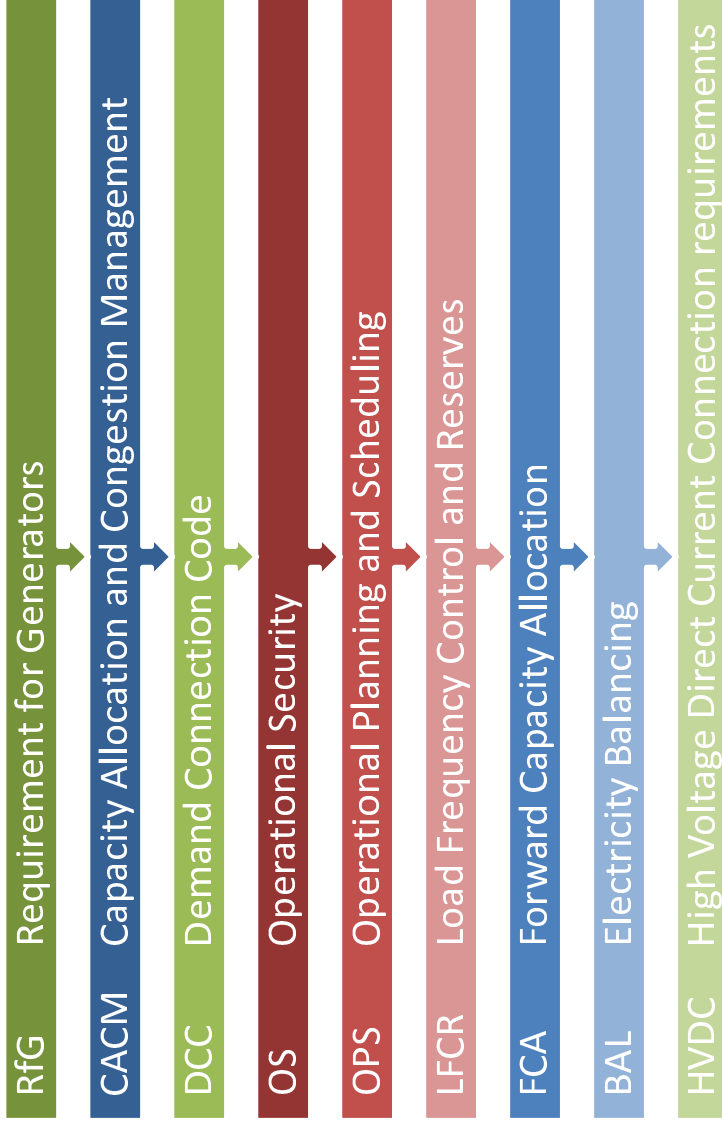
# Order of Work on Network Codes

Through a 'Priority List' agreed upon through consultation with ACER/ENTSO-E

Decided By EC

Influenced by and informs

ENTSO-E's 3 year work plan



Therefore  
current  
Network Codes  
developed in  
this order

# Code Overview



# Network Codes

## System Operation Related Codes Update

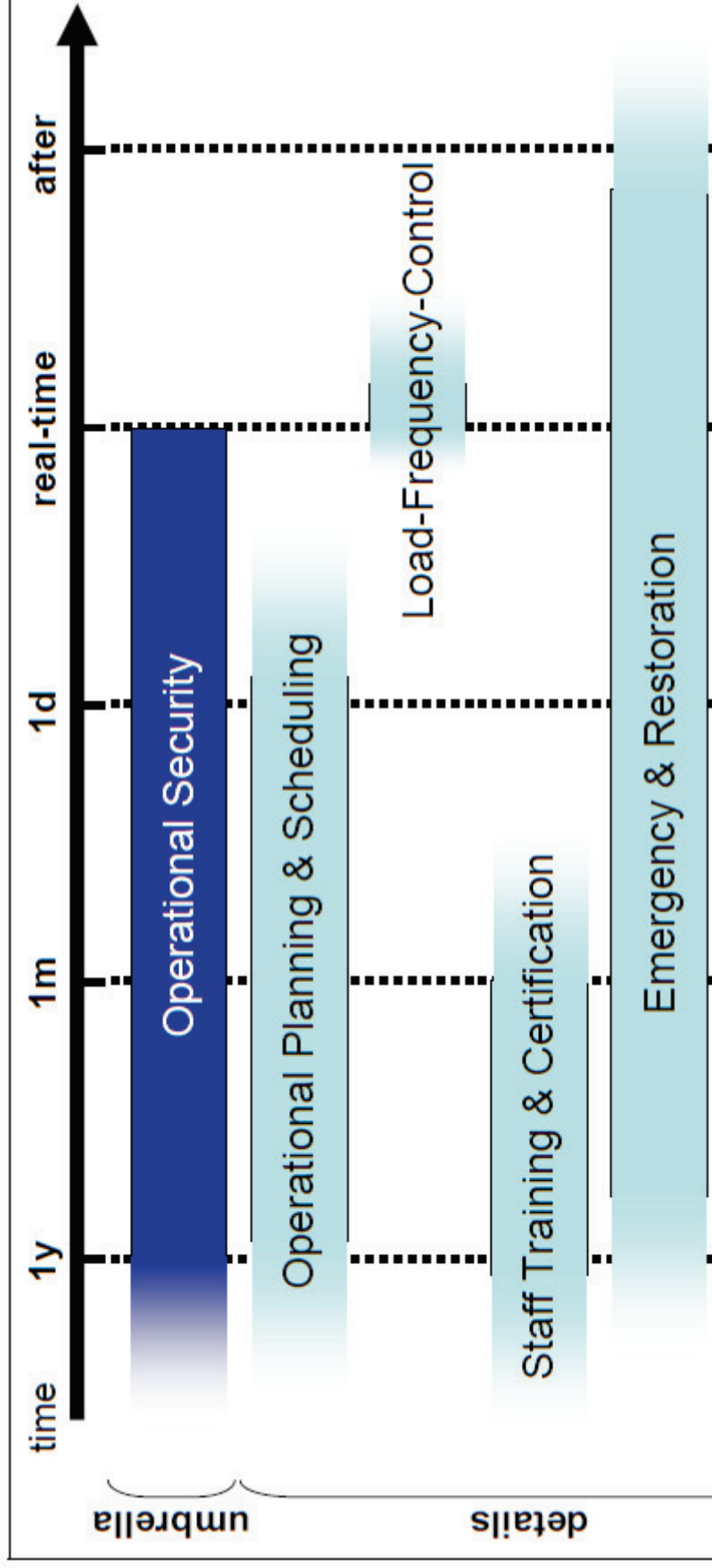
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Liam Ryan

17 January 2013



# System Operation Related Network Codes



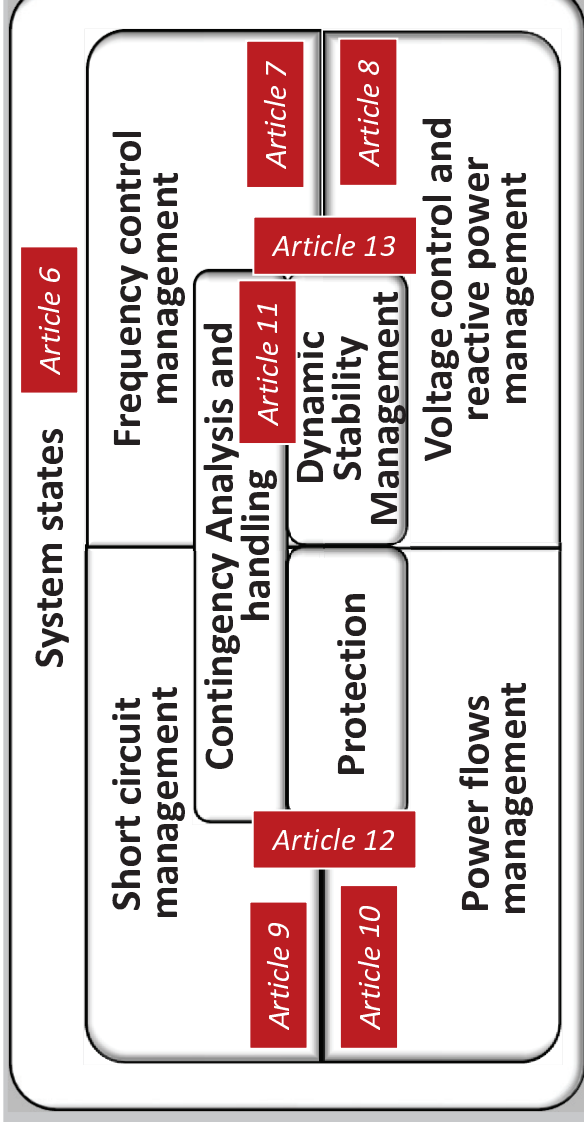
# Purpose of the Operational Security

To set common rules for ensuring the operational security of the pan European power system.

# Operational Security Network Code Contents

**1. General provisions:** Subject matter and scope, Definitions, Regulatory aspects, Recovery of costs, Confidentiality obligations **Articles 1-5**

## 2. Requirements



## 3. Data exchange

Data exchange **Articles 14-27**

## 4. Training

Operational training and certification **Article 28**

## 5. Compliance

Responsibilities, Testing, Analysis (incl. PI) **Articles 29-31**

## 6. Final provisions

**Articles 32-33**

**Annex I** Incidents Classification Scale



# Stages of Network Code Development (I)

## Step 1- Scoping

- Identify a structure.
- Discuss key issues.
- Ensure a common understanding

## Step 2 - Drafting

- Draft text to meet the structure
- Discuss & refine
- Share with stakeholders & listen to views
- Develop supporting material

## Step 3 - Internal Approvals

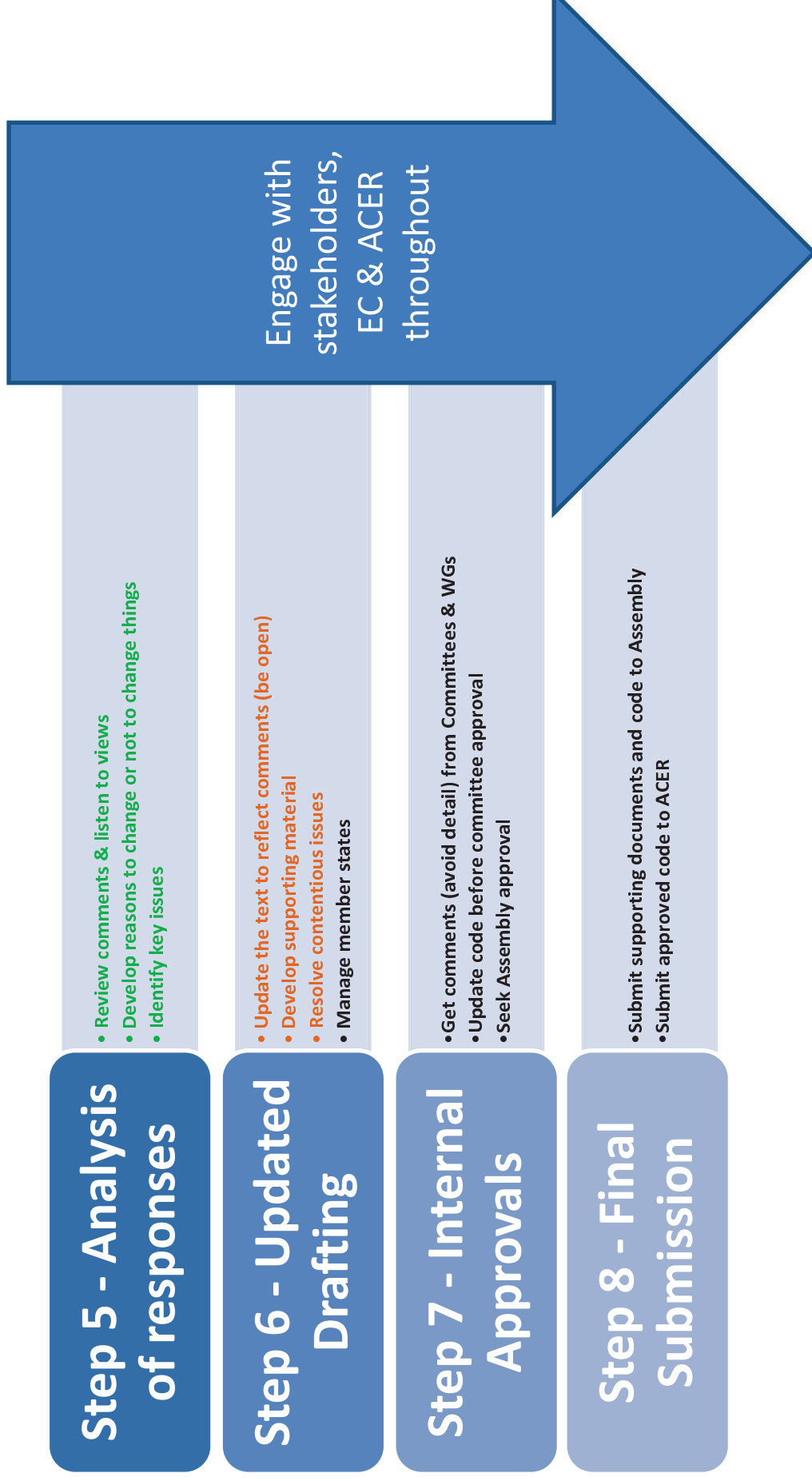
- Get comments (avoid detail) from Committees & WGs
- Update code before committee approval
- Seek Assembly approval to consult

## Step 4 - Public Consultation

- 2 month consultation
- Listen to views (national and at EU level)
- Get ready for next steps (don't stop work)

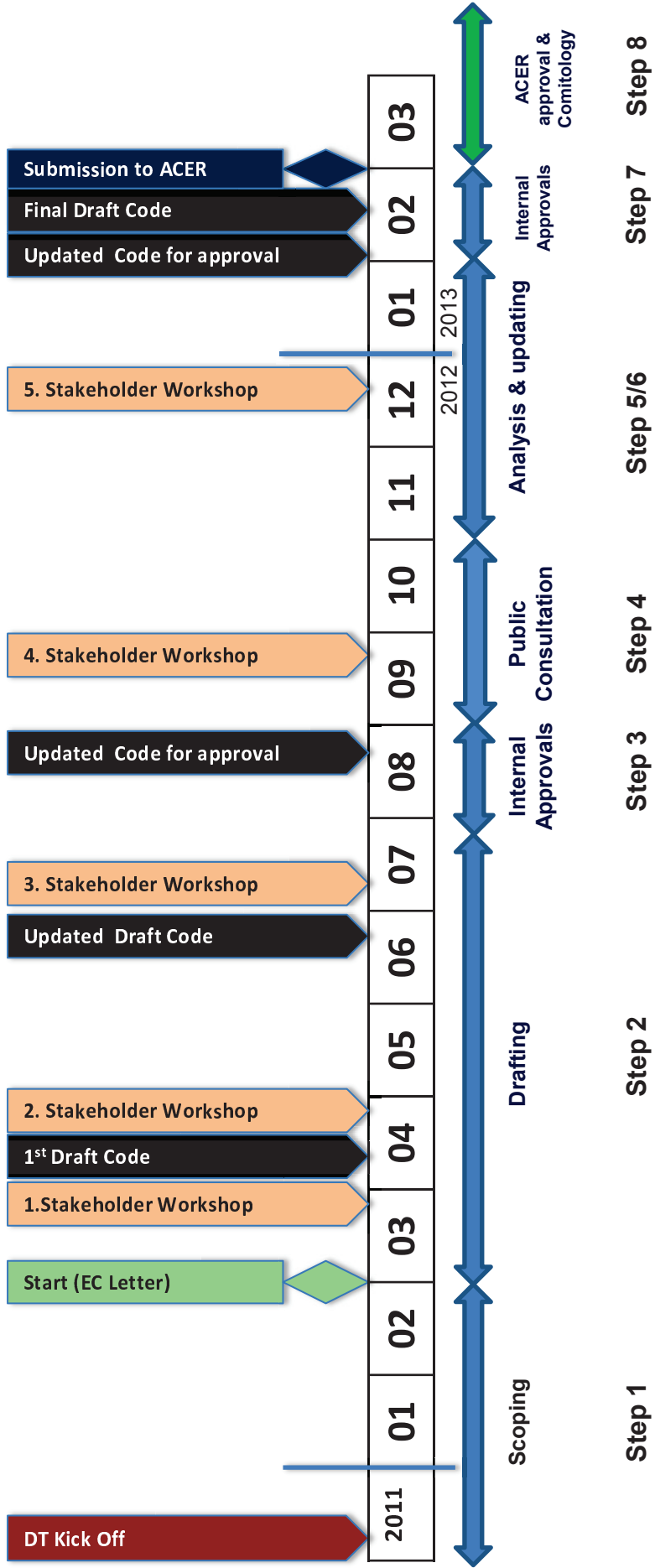
Engage with stakeholders, EC & ACER throughout

# Stages of Network Code Development (II)

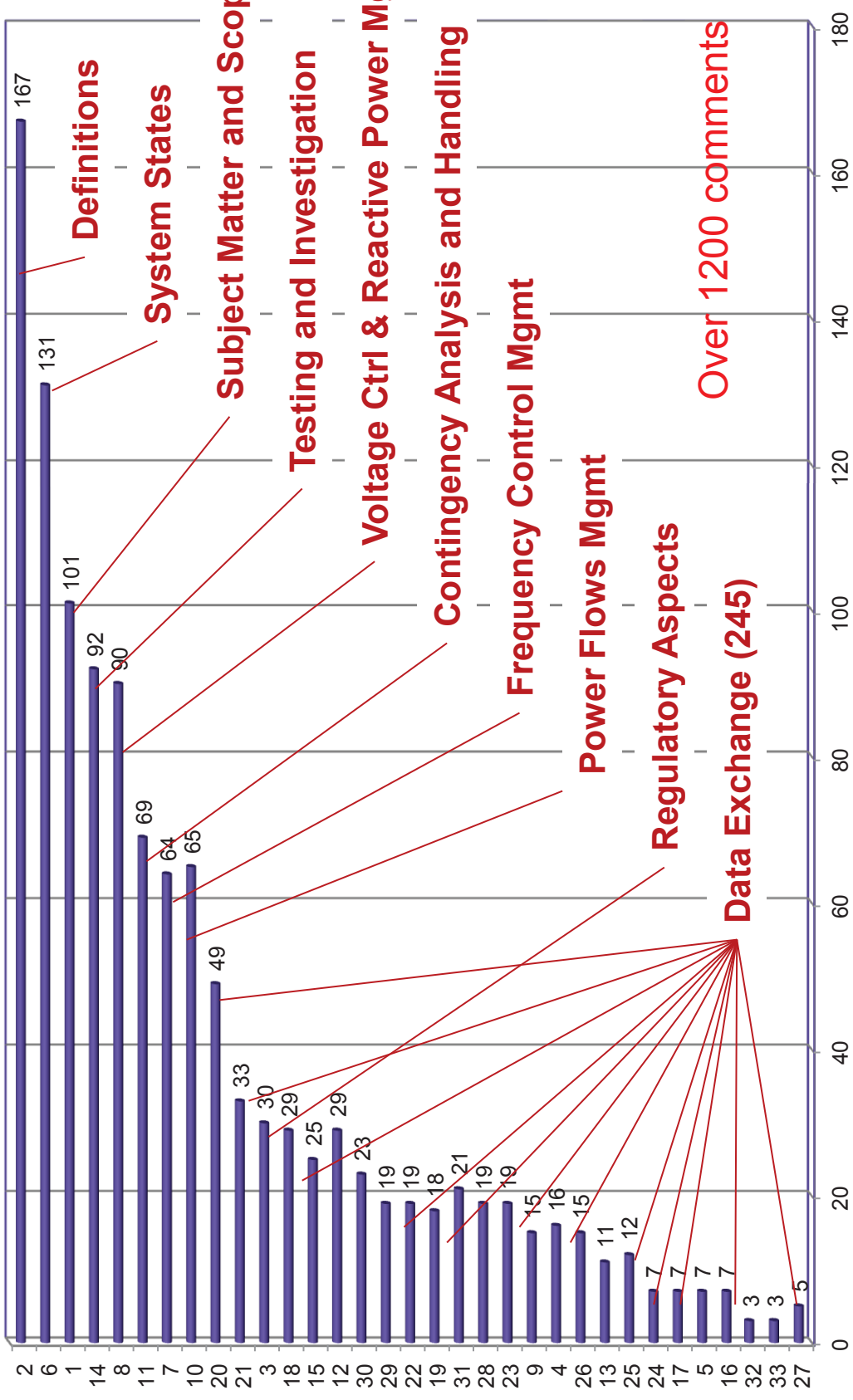


# Network Code Development Operational Security Code

2012 / 13



# Public Consultation



## Next steps

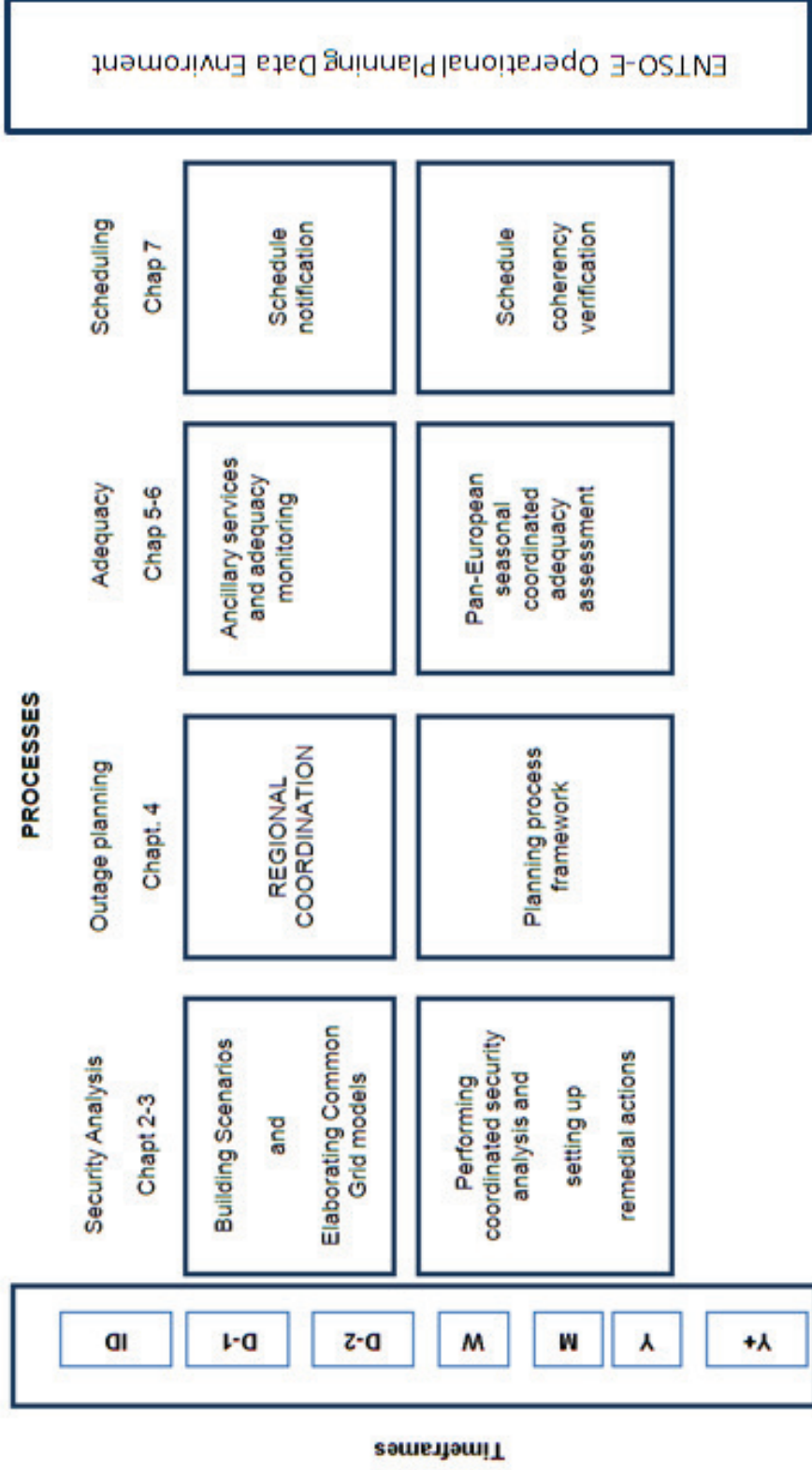
- Work continuing to incorporate the requests of stakeholders and ACER
- Develop final version and submit to ACER by the end of Feb 2013

# **Operational Planning and Scheduling Network Code (OP&S NC)**

## Purpose of the Operational Security

Sets requirements, ranging from the year ahead timeframe to real time , for assessing the adequacy and operational security of the interconnected power system and for planning outages required by TSO's and grid users when they have cross borders impacts on power flows.

# Contents of OP&S Network Code





# Stages of Network Code Development (I)

## Step 1- Scoping

- Identify a structure.
- Discuss key issues.
- Ensure a common understanding

## Step 2 - Drafting

- Draft text to meet the structure
- Discuss & refine
- Share with stakeholders & listen to views
- Develop supporting material

## Step 3 - Internal Approvals

- Get comments (avoid detail) from Committees & WGs
- Update code before committee approval
- Seek Assembly approval to consult

## Step 4 - Public Consultation

- 2 month consultation
- Listen to views (national and at EU level)
- Get ready for next steps (don't stop work)

Engage with stakeholders, EC & ACER throughout

# Stages of Network Code Development (II)

## Step 5 - Analysis of responses

- Review comments & listen to views
- Develop reasons to change or not to change things
- Identify key issues

## Step 6 - Updated Drafting

- Update the text to reflect comments (be open)
- Develop supporting material
- Resolve contentious issues
- Manage member states

## Step 7 - Internal Approvals

- Get comments (avoid detail) from Committees & WGs
- Update code before committee approval
- Seek Assembly approval

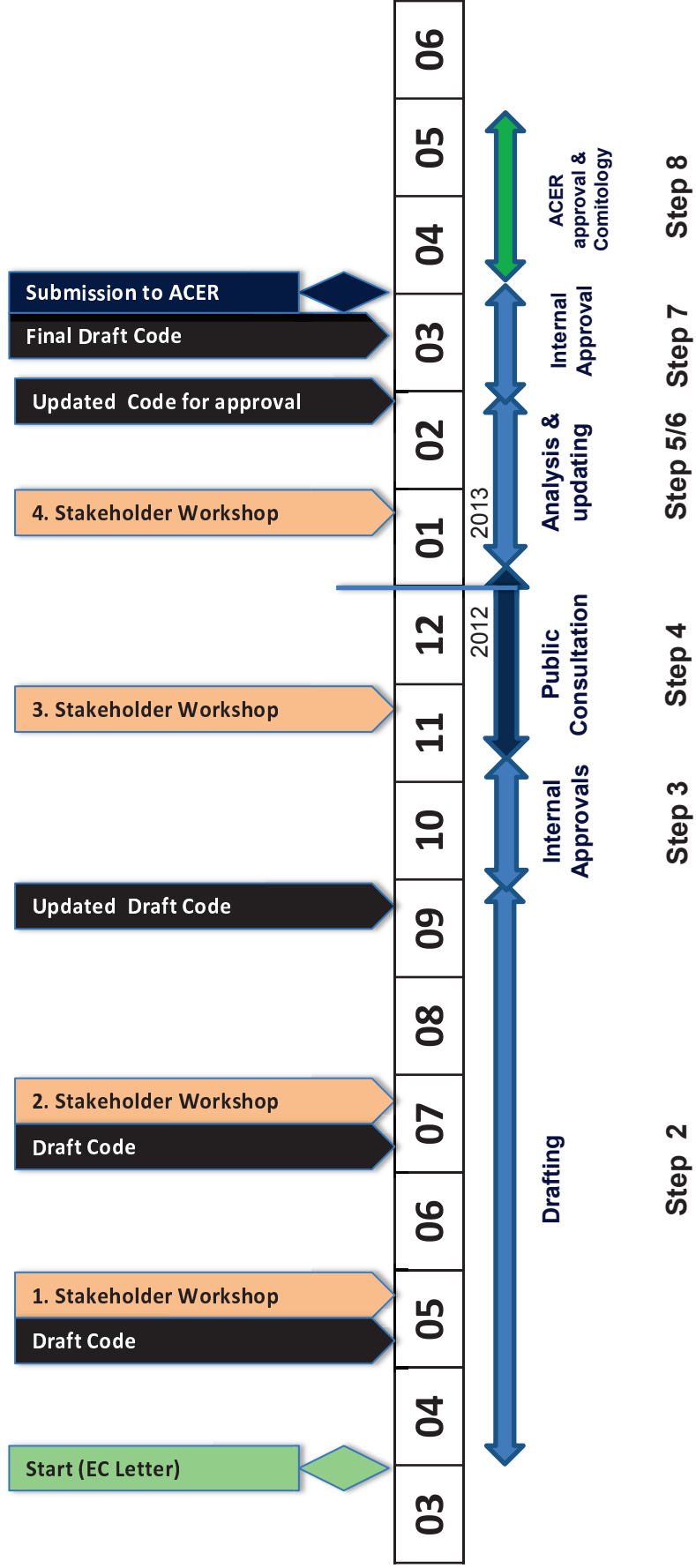
## Step 8 - Final Submission

- Submit supporting documents and code to Assembly
- Submit approved code to ACER

Engage with stakeholders, EC & ACER throughout

# Network Code Development Operational Planning and Scheduling Code

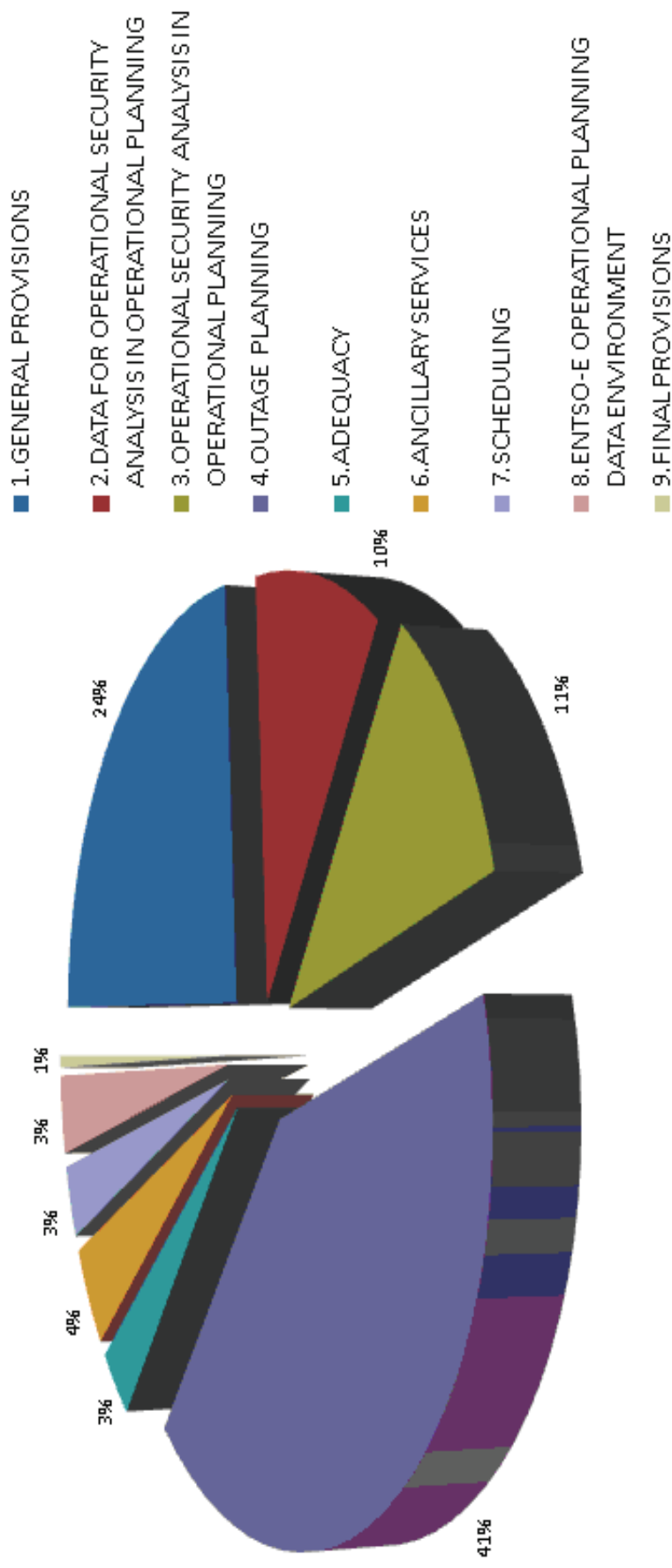
2012 / 13



# Public Consultation

850 comments received

## Percentage of comments per each chapter



## What's next?

- Review comments & listen to views for consultation
- Identify key issues
- Work continuing to incorporate the requests of stakeholders and ACER
- Develop final version and submit ACER by the end of March 2013

# Network Codes

## Load Frequency Control & Reserves (LFC&R)

## Purpose of the Load Frequency Control & Reserves NC

- To set out coordinated and clearly specified load frequency control processes and rules regarding the levels and location of reserves (back-up) which TSOs need to hold.

# Stages of Network Code Development (I)

## Step 1- Scoping

- Identify a structure.
- Discuss key issues.
- Ensure a common understanding

## Step 2 - Drafting

- Draft text to meet the structure
- Discuss & refine
- Share with stakeholders & listen to views
- Develop supporting material

## Step 3 - Internal Approvals

- Get comments (avoid detail) from Committees & WGs
- Update code before committee approval
- Seek Assembly approval to consult

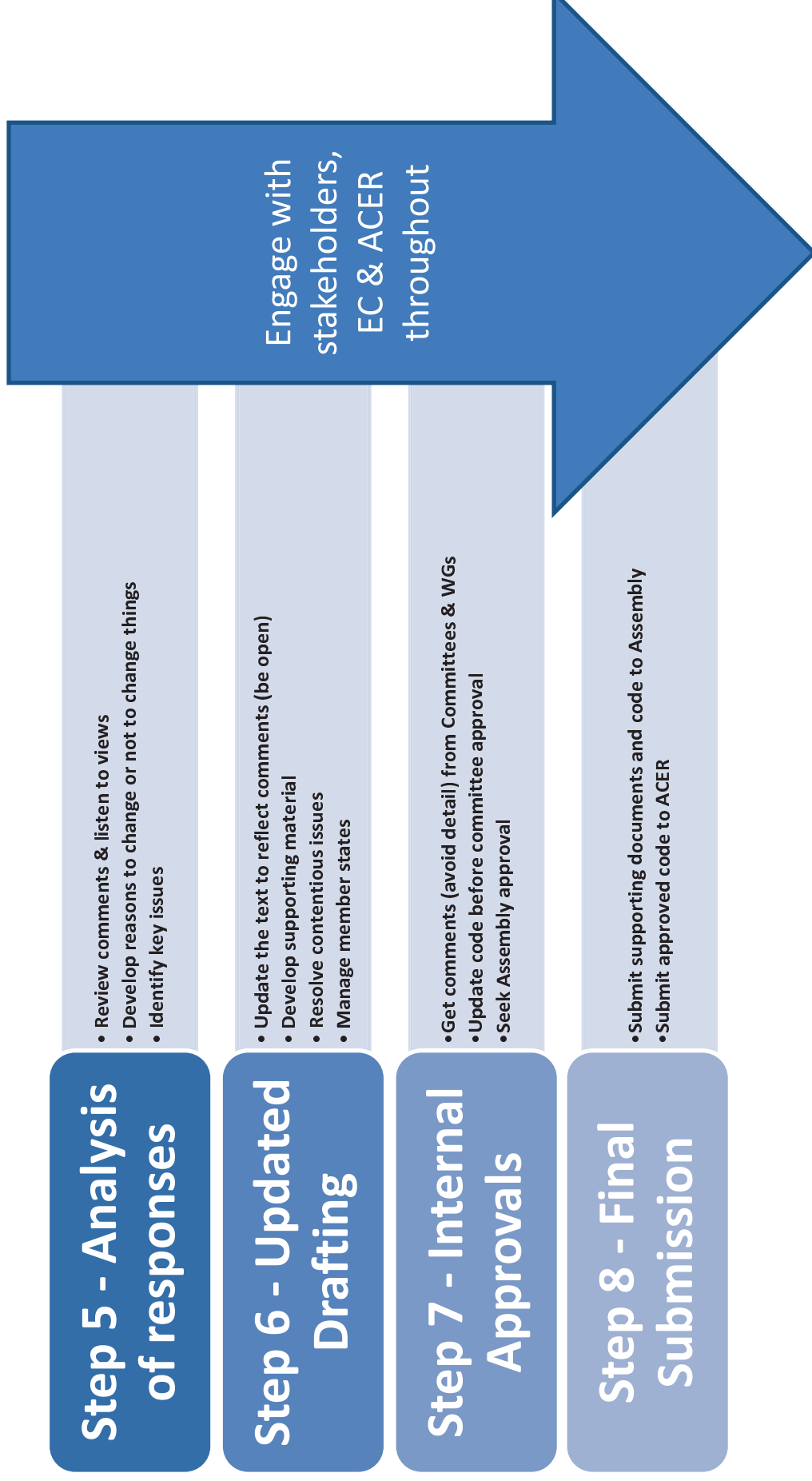
## Step 4 - Public Consultation

- 2 month consultation
- Listen to views (national and at EU level)
- Get ready for next steps (don't stop work)

Engage with stakeholders, EC & ACER throughout



# Stages of Network Code Development (II)

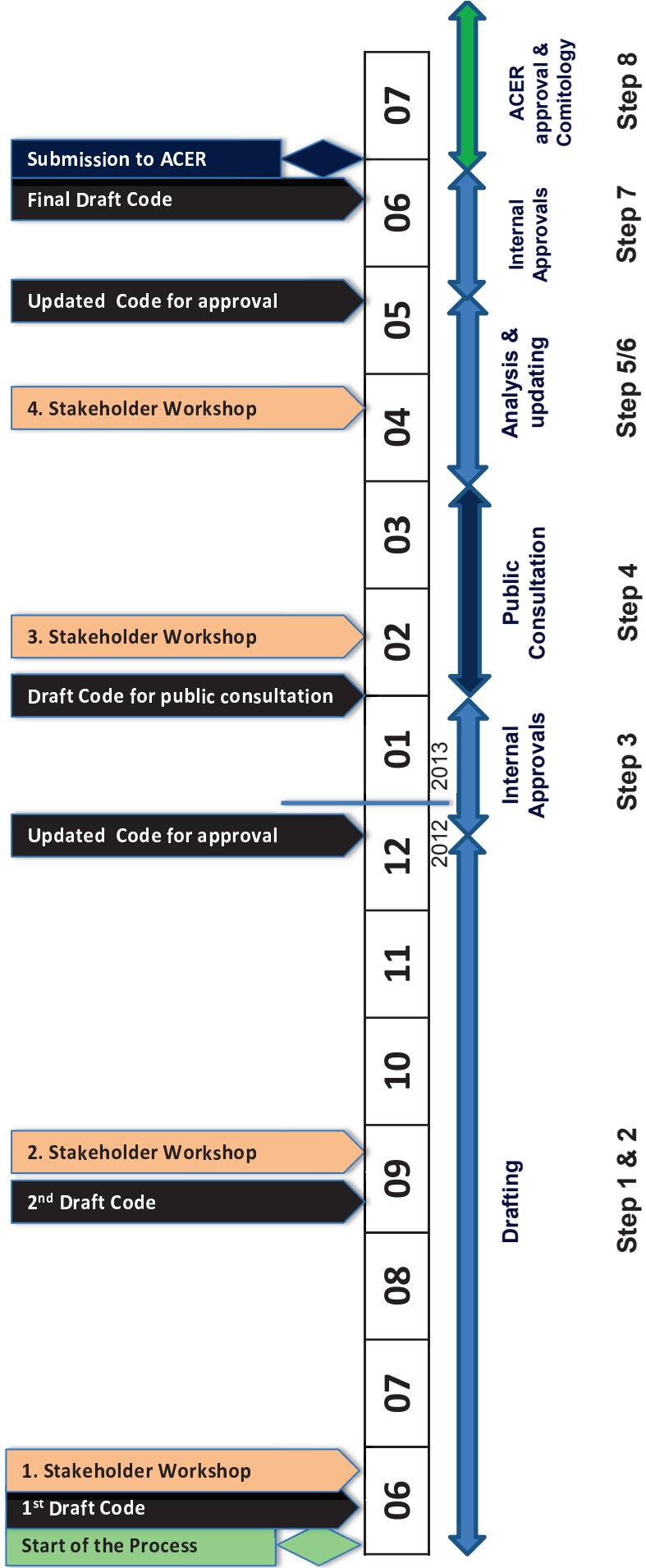


## LFC&R Network Code Contents

- Frequency Quality
- Load – Frequency Control Structure
- Frequency Containment Reserves
- Frequency Restoration Reserves
- Replacement Reserves
- Cross Border Reserves
- Synchronous Time Control
- Cooperation with DSO

# Network Code Development – LFC&R Code

2012 / 13



## Key Areas for Participants

- Requirements on Reserve Providers
- Exchange of Reserves between Synchronous Areas
- Frequency Quality Evaluation
- Your input to the Public consultation is essential

## What's next?

- Issue paper for publication consultation for 2 months, beginning of Feb 2013
- Stakeholder workshop early Feb

Thank you



# RfG Network Code

1<sup>st</sup> SEM RA/TSO Stakeholder Forum

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17 January 2013



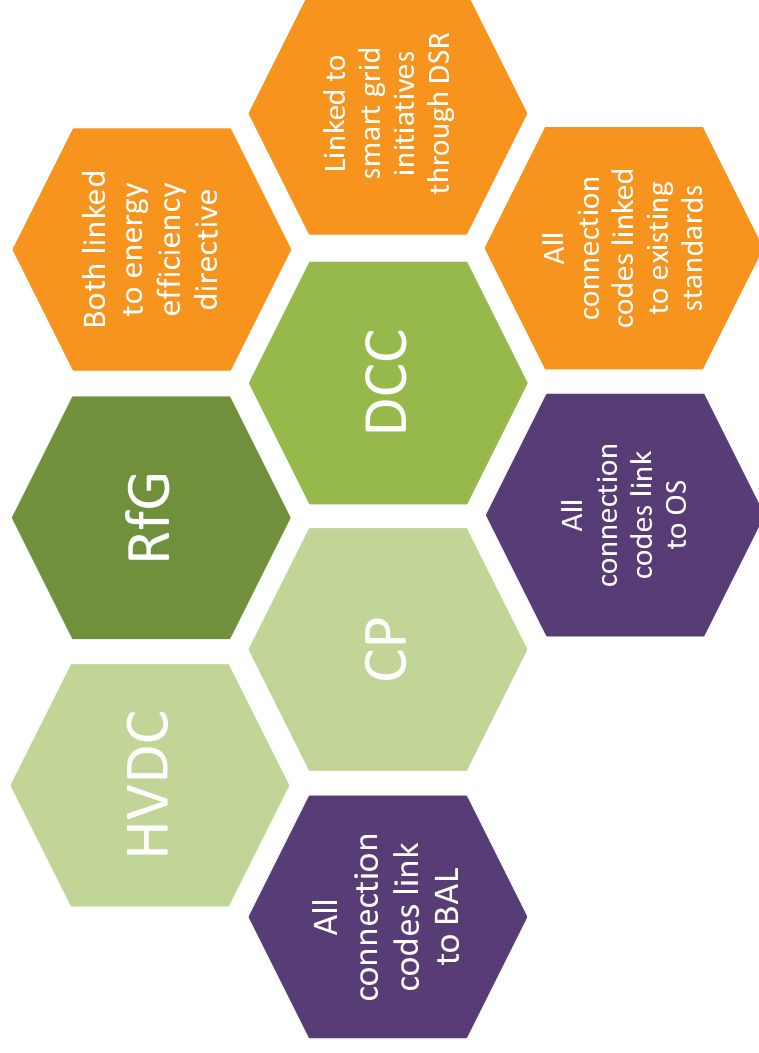


# Grid Connection Codes

- RfG was developed first
- Followed by DCC
- Soon HVDC will begin & CP will follow
- These codes link into (and are influenced by) several important policy areas
- And are also related to existing standards

Some of the more substantial links to others codes are;

- Electricity Balancing; and
- Operational Security



# Stages of Network Code Development (Pilot I)



# Stages of Network Code Development (Pilot II)

## Step 5 - Analysis of responses

- Review comments & listen to views
- Develop reasons to change principles or not to change things
- Identify key issues

## Step 6 – Drafting of Network Code text

- Create the text to reflect comments (be open) working with user group
- Develop supporting material
- Resolve contentious issues

## Step 7 - Issue of draft FWGL from ERGEG

- Review FWGL implications on RfG
- Adjust Code text
- Discuss with Stakeholders in User group and bilateral

## Step 8 - Internal Approvals

- Get comments from Committees & WGs
- Update code principles before committee approval
- Seek Assembly approval to consult

Engage with stakeholders, EC & ACER throughout

# Stages of Network Code Development (Pilot III)

## Step 9 – 2nd Public Consultation on Draft Network Code

- Listen to views (national and at EU level)
- Get ready for next steps

## Step 10 - Analysis of responses

- Review comments & listen to views
- Develop reasons to change or not to change things
- Identify key issues

## Step 11 - Issue of Final FWGL from ERGEG

- Review FWGL implications on RfG
- Adjust Code text
- Discuss with Stakeholders in User group and bilateral

## Step 12 – Drafting of Network Code text

- Create the text to reflect comments (be open) working with user group
- Develop supporting material
- Resolve contentious issues

Engage with stakeholders, EC & ACER throughout

# Stages of Network Code Development (Pilot IV)

## Step 13 - Internal Approvals

- Get comments from Committees & WGs
- Update code principles before committee approval
- Seek Assembly approval to consult

## Step 14 – Publish final code

- Finish pilot project
- Publish final draft
- Provide proposals for future procedure of code development

Engage with stakeholders, EC & ACER throughout

# Stages of Network Code Development (I)

## Step 1 – Issue of FWGL

- Newly formed ACER provides FWGL

## Step 2- Scoping

- Identify a structure.
- Discuss key issues.
- Ensure a common understanding

## Step 3 - Drafting

- Adjust draft pilot code text to meet objectives of the F
- Discuss & refine
- Share with stakeholders

## Step 4 - Internal Approvals

- Get comments from Committees & WGs
- Update code principles before committee approval
- Seek Assembly approval to consult

Engage with stakeholders, EC & ACER throughout

# Stages of Network Code Development (II)

## Step 5 – Public Consultation

- 3 month consultation
- Listen to views (national and at EU level)
- Get ready for next steps

## Step 6 - Analysis of responses

- Review comments & listen to views
- Develop reasons to change or not to change things
- Identify key issues

## Step 7 – Drafting of Network Code text

- Create the text to reflect comments (be open) working with user group
- Develop supporting material
- Resolve contentious issues

## Step 8- Internal Approvals

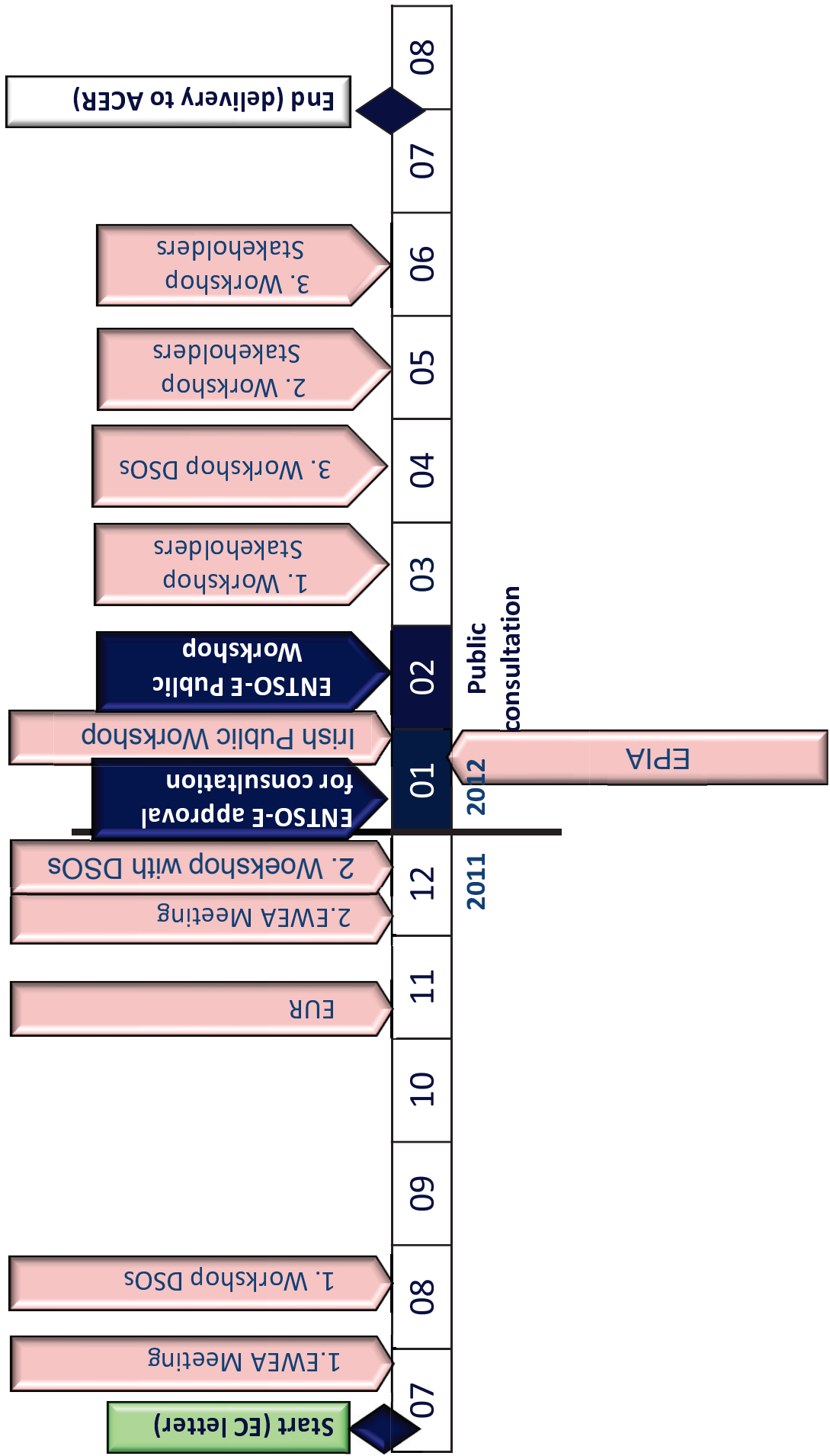
- Get comments (avoid detail) from Committees & WGs
- Update code before committee approval
- Seek Assembly approval

## Step 9 - Final Submission

- Approval of supporting documents and code to Assembly
- Submit approved code to ACER

Engage with stakeholders, EC & ACER throughout

# Network Code Development





# Objective/Scope of the Code

*To define “Significant Grid User” consistent with the FWGL and other network codes and to develop functional specifications that are applicable to different Generators, from 800W upwards. The requirements should be non-discriminatory, and utilise the inherent capabilities of Generators to ensure or improve power system security and enhance market integration and wind energy penetration.*

# Significant users

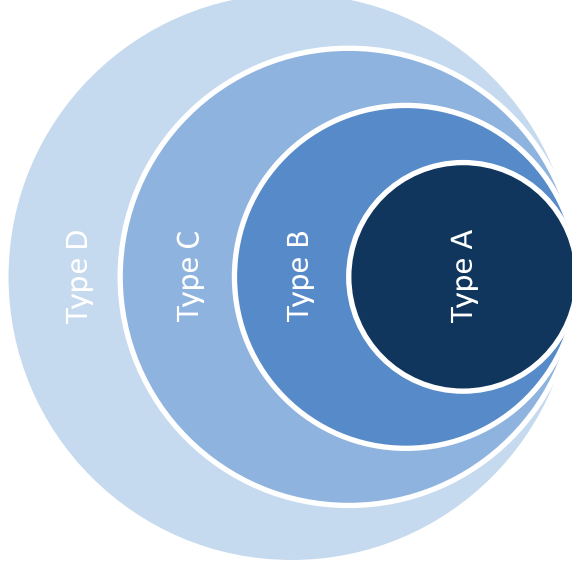
- Generator capabilities are formulated from a system performance perspective, independent from technology
- Need to be able to cope with evolutions in generation mix
- Significance is regarded per requirement

Wide-scale network operation and stability including European-wide balancing services

Stable and controllable dynamic response capabilities covering all operational network states

Automated dynamic response and resilience to operational events including system operator control

Basic capabilities to withstand wide-scale critical events; limited automated response/operator control



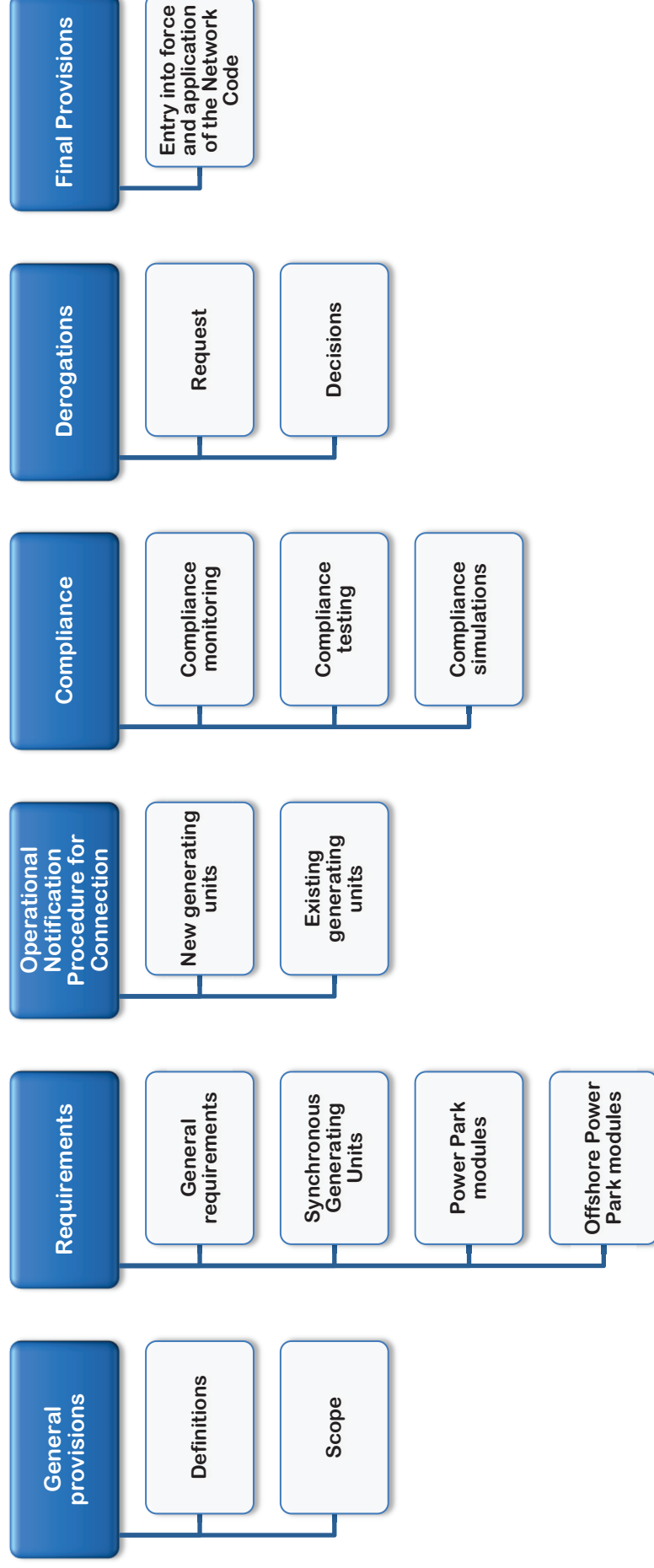
# Significant users

Network Code gives max. thresholds at synchronous system level

- Criteria based on voltage level ( $> 110\text{kV}$  → Type D) and MW capacity (table)

Synchronous Area	maximum capacity threshold from which on a Generating Unit is of Type B	maximum capacity threshold from which on a Generating Unit is of Type C
Continental Europe	0.1 MW	10 MW
Nordic	1.5 MW	10 MW
Great Britain	1 MW	10 MW
Ireland	0.1 MW	5 MW
Baltic	0.1 MW	5 MW

# Contents of Code



## Key Areas for Participants

- At present stage in ACER approval phase, no further consultation is expected until comitology.



# DCC Network Code

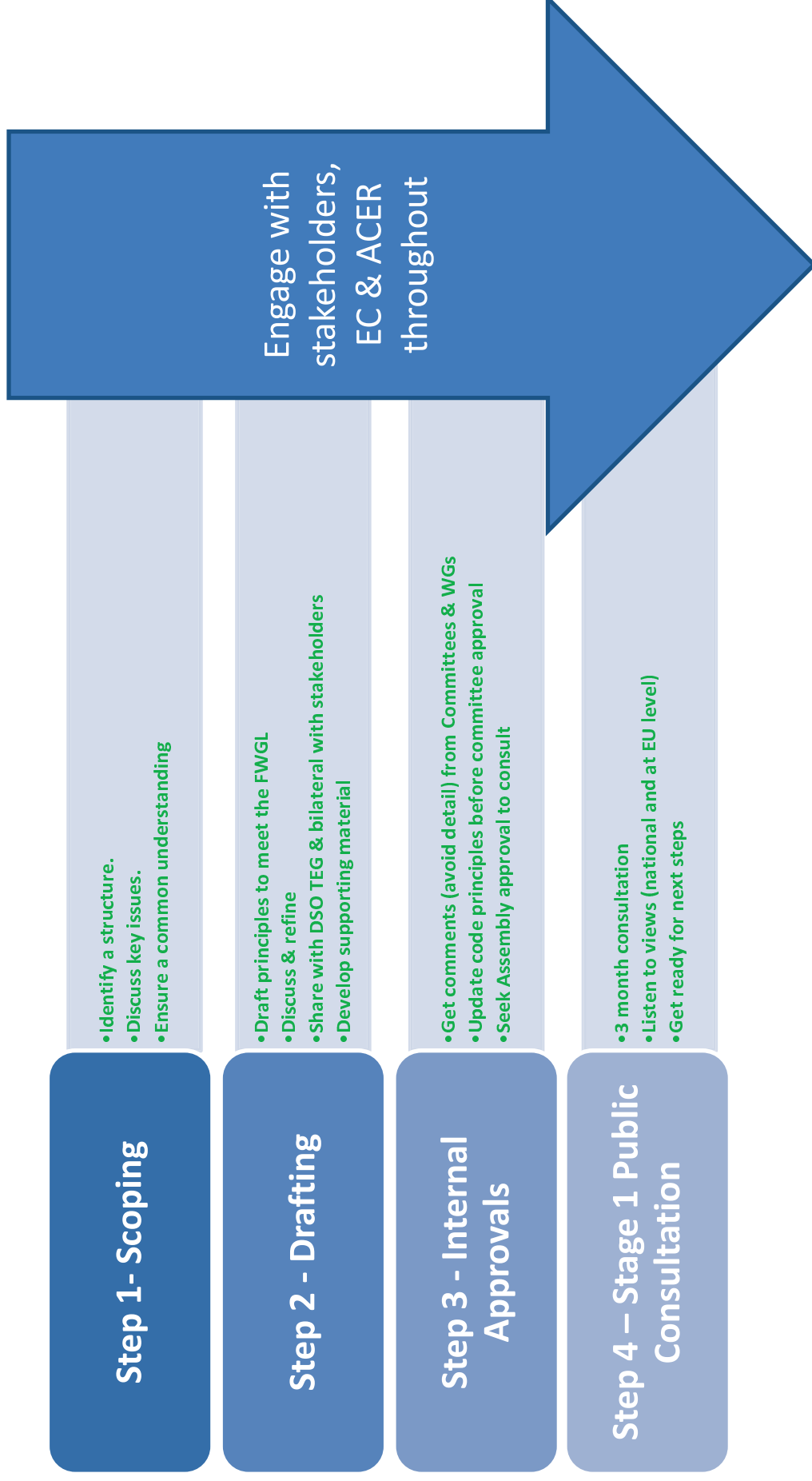
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17 January 2013



# Stages of Network Code Development (I)





# Stages of Network Code Development (II)

## Step 5 - Analysis of responses

- Review comments & listen to views
- Develop reasons to change principles or not to change things
- Identify key issues

## Step 6 – Drafting of Network Code text

- Create the text to reflect comments (be open) working with DSO TEG and user group
- Develop supporting material
- Resolve contentious issues

## Step 7 – Stage 2 Public Consultation on Draft

- 3 month consultation
- Listen to views (national and at EU level)
- Get ready for next steps

## Step 8 - Analysis of responses

- Review comments & listen to views
- Develop reasons to change or not to change things
- Identify key issues

Engage with stakeholders, EC & ACER throughout

# Stages of Network Code Development (III)

## Step 9 - Updated Drafting

- Update the text to reflect comments on draft code
- Develop supporting material
- Resolve contentious issues

## Step 10 - Internal Approvals

- Get comments (avoid detail) from Committees & WGs
- Update code before committee approval
- Seek Assembly approval

## Step 11 – Public information session

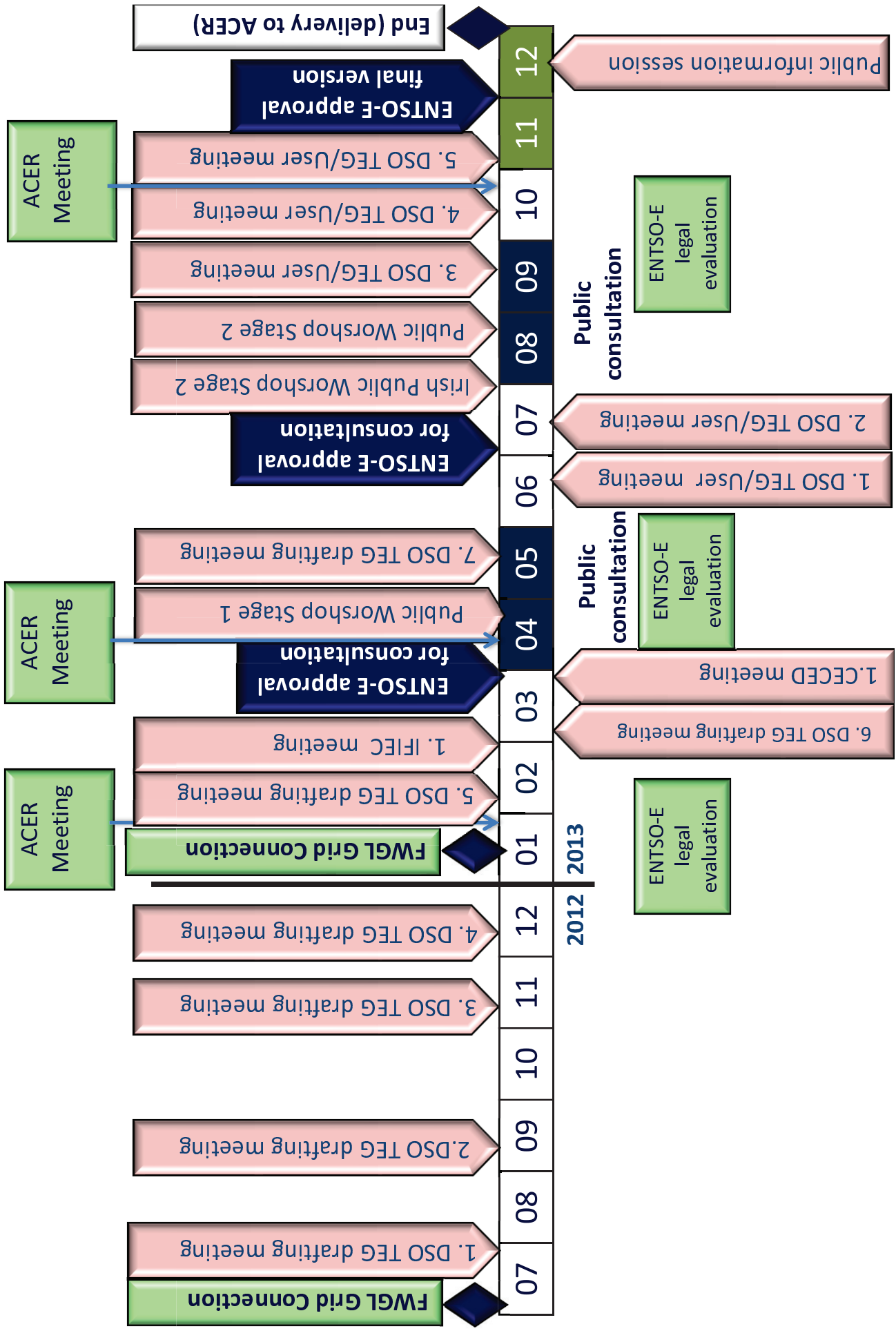
- Present changes in network code post stage 2 consultation
- Explain rational and drivers for change
- Consultation before and preparation for ACER FWGL compliance plan

## Step 12 - Final Submission

- Approval of supporting documents and code to Assembly
- Submit approved code to ACER

Engage with stakeholders, EC & ACER throughout

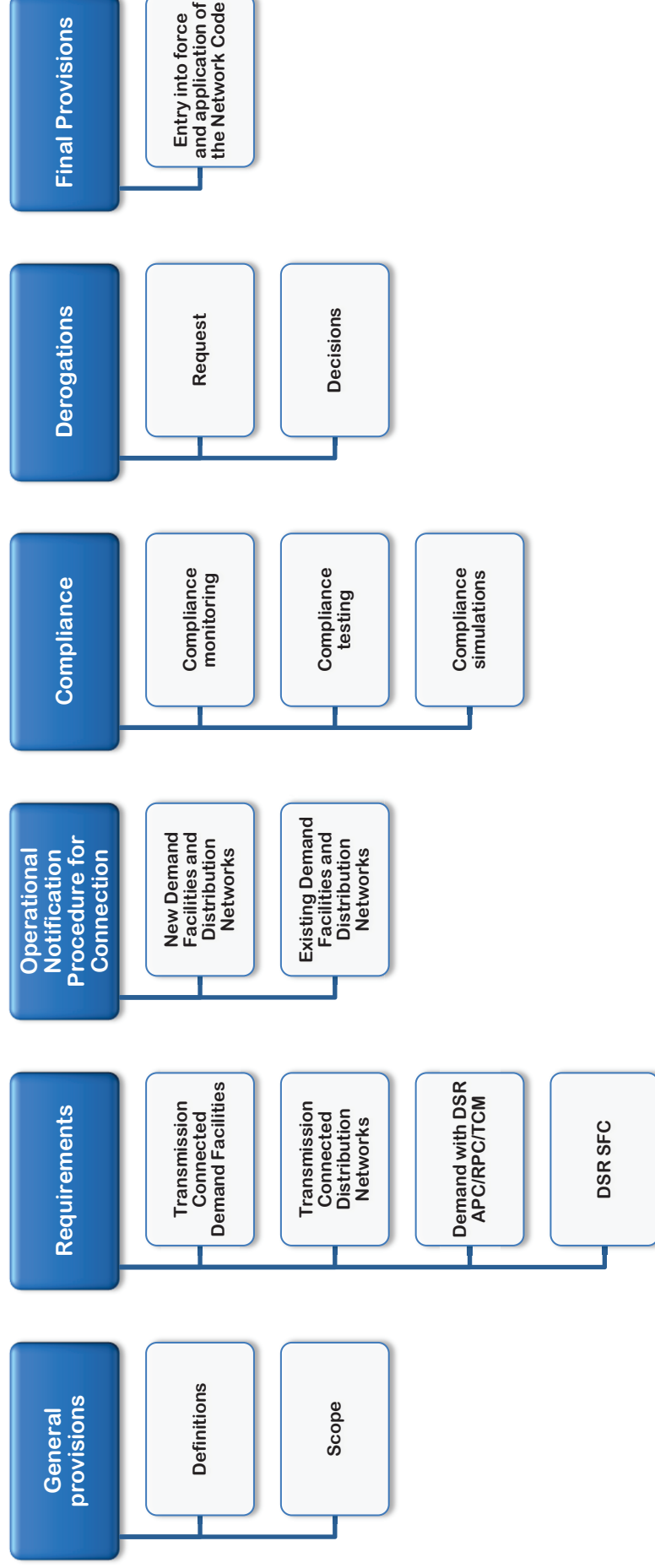
# Network Code Development



# Objective/Scope of the Code

*To define “Significant Grid User” consistent with the FWGL and other network codes and to develop functional specifications that are applicable to different Demand users, notably Transmission Connected Demand Facilities and DSOs, and Demand Side Response. The requirements should be non-discriminatory, and utilise the inherent capabilities of Demand Users to ensure or improve power system security and enhance market integration and wind energy penetration.*

# Contents of Code



## Key Areas for Participants

- As code now submitted to ACER, participants have an opportunity to attend ACERs workshop on the DCC on the 24<sup>th</sup> Jan 2013 in Slovenia.
- Assuming successful approval of the compliance with the FWGL then subsequent to this during the comitology phase



# HVDC Network Codes

1<sup>st</sup> SEM RA/TSO Stakeholder Forum

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17 January 2013





# Stages of Network Code Development (I)

## Step 1- Scoping

- Identify a structure.
- Discuss key issues.
- Ensure a common understanding

## Step 2 - Drafting

- Draft text to meet the structure
- Discuss & refine
- Share with stakeholders & listen to views
- Develop supporting material

## Step 3 - Internal Approvals

- Get comments (avoid detail) from Committees & WGs
- Update code before committee approval
- Seek Assembly approval to consult

## Step 4 - Public Consultation

- 2 month consultation
- Listen to views (national and at EU level)
- Get ready for next steps (don't stop work)

Engage with stakeholders, EC & ACER throughout

# Stages of Network Code Development (II)

## Step 5 - Analysis of responses

- Review comments & listen to views
- Develop reasons to change or not to change things
- Identify key issues

## Step 6 - Updated Drafting

- Update the text to reflect comments (be open)
- Develop supporting material
- Resolve contentious issues
- Manage member states

## Step 7 - Internal Approvals

- Get comments (avoid detail) from Committees & WGs
- Update code before committee approval
- Seek Assembly approval

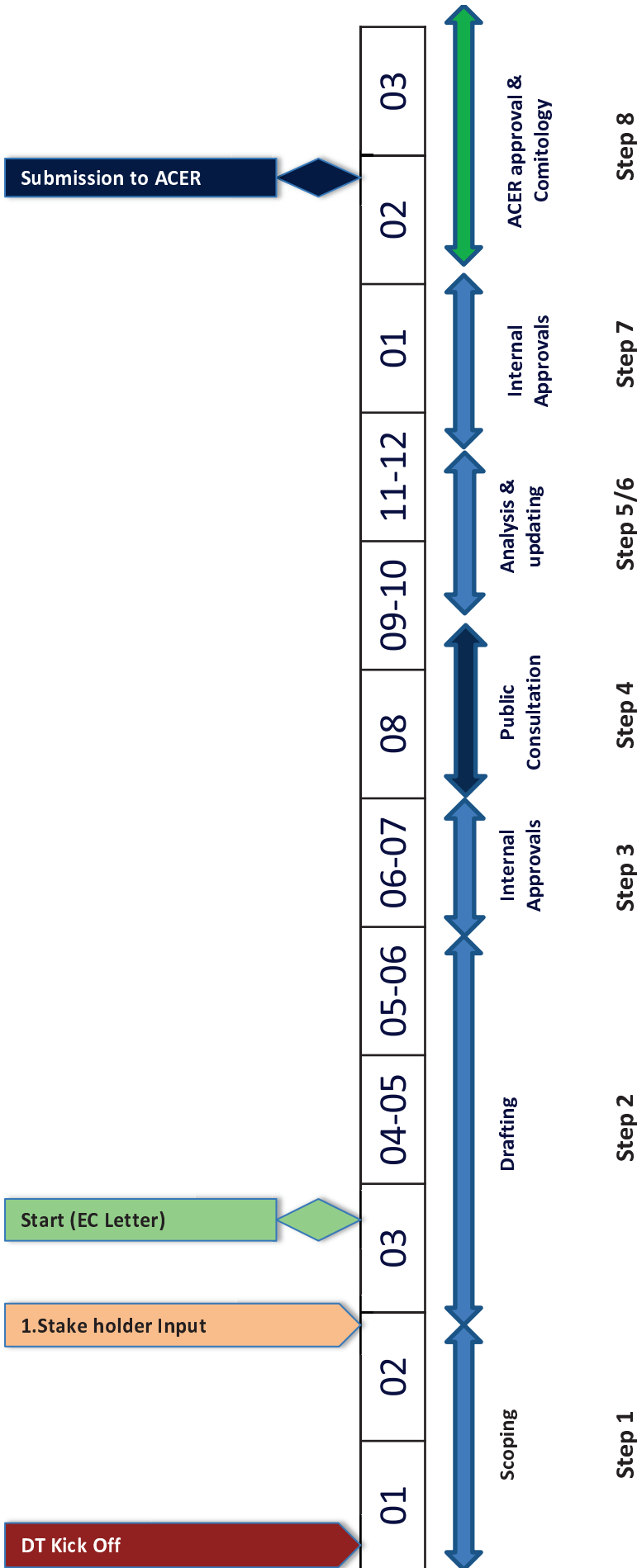
## Step 8 - Final Submission

- Submit supporting documents and code to Assembly
- Submit approved code to ACER

Engage with stakeholders, EC & ACER throughout

# Network Code Development – HVDC Code

2013



# Objective/Scope of the Code

*To define “Significant Grid User” consistent with the FWGL and other network codes and to develop functional specifications that are applicable to different HVDC and DC connected offshore PPM configurations. The requirements should be non-discriminatory, and utilise the inherent capabilities of HVDC systems and DC connected offshore PPMs to ensure or improve power system security and enhance market integration and wind energy penetration.*

# Cross-border issues and significant Grid User

(EC) 714/2009 – Art.  
8 (7)

- “The network codes shall be developed for **cross-border network issues and market integration issues** and shall be without prejudice to the Member States’ right to establish national network codes which do not affect cross-border trade”
- The network code(s) developed according to these Framework Guidelines shall define appropriate **minimum standards and requirements applicable to all significant grid users.**”

Context 3<sup>rd</sup> Energy  
Package

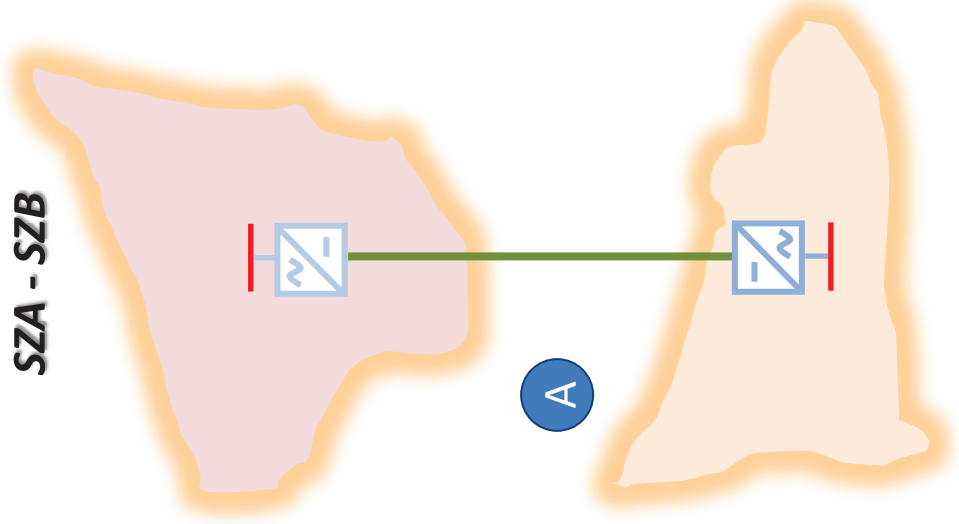
- supporting the completion and functioning of the internal market in electricity and cross-border trade
- facilitating the targets for penetration of renewable generation
- maintaining security of supply

Rfg definition

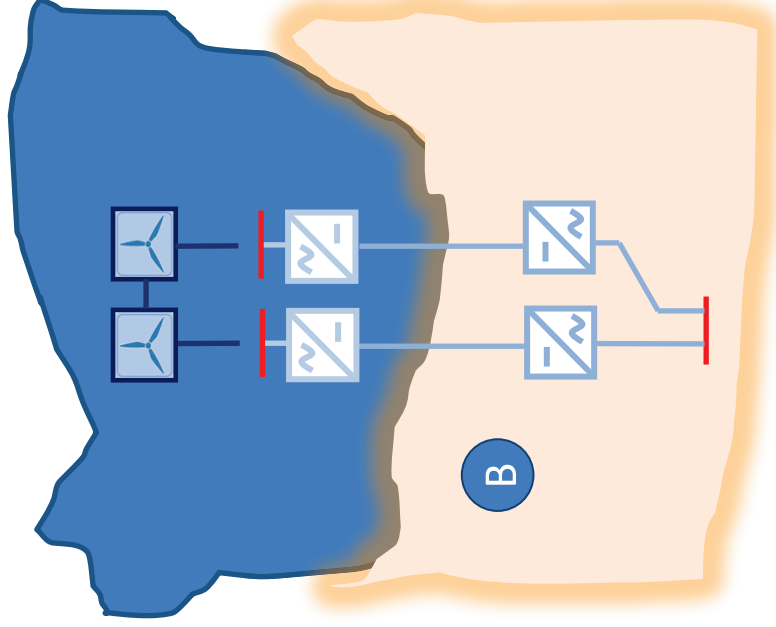
- All requirements that **contribute to maintaining, preserving and restoring system security** in order to **facilitate proper functioning of the internal electricity market** within and between synchronous areas, and to **achieving cost efficiencies through technical standardization** shall be regarded as “**cross-border network issues and market integration issues**”.

# Types of HVDC and DC offshore Power Park Module

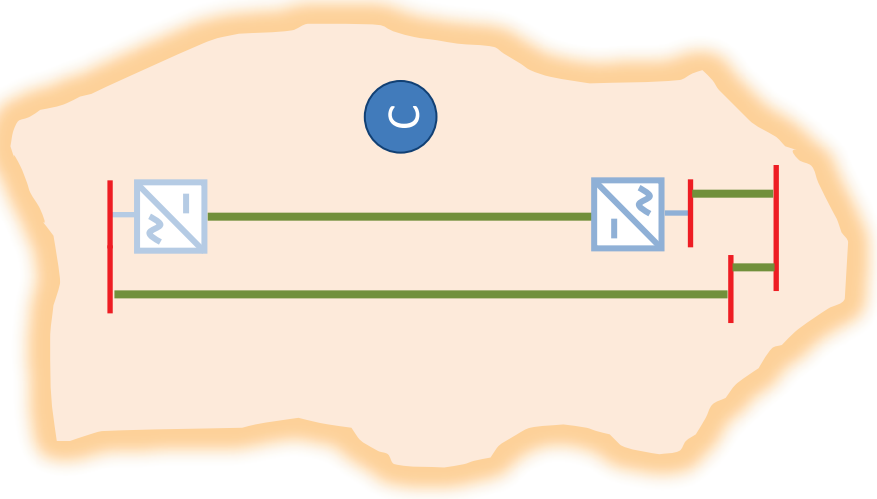
**DC Connection  
SZA - SZB**



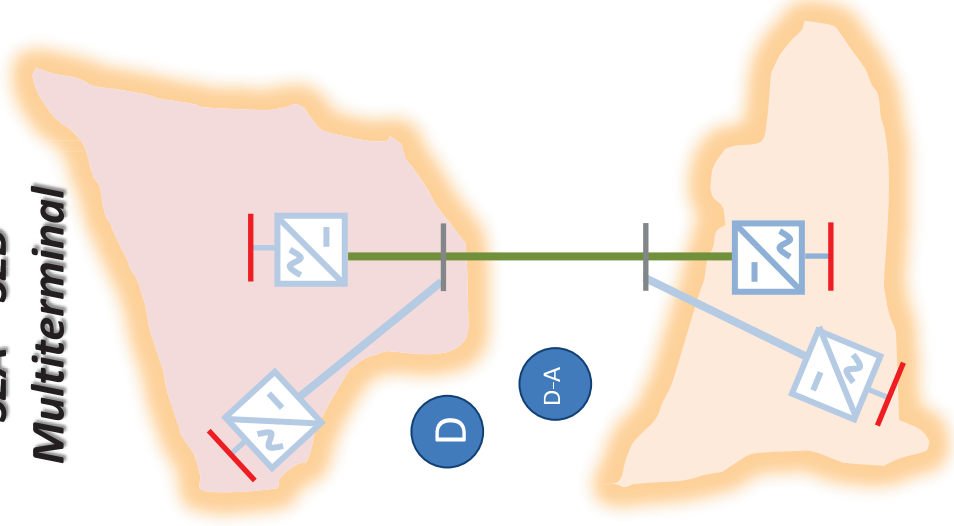
**DC-Connection  
OS-SZ**



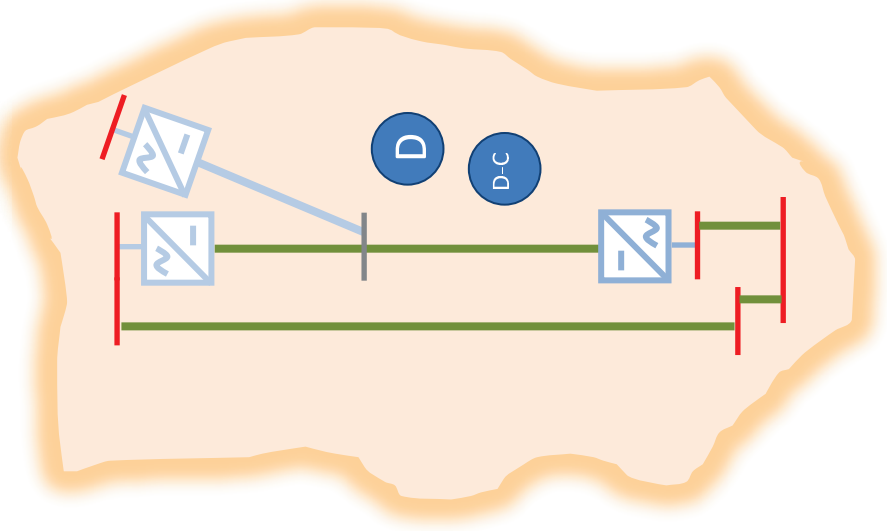
**Embedded DC  
within one SZ**



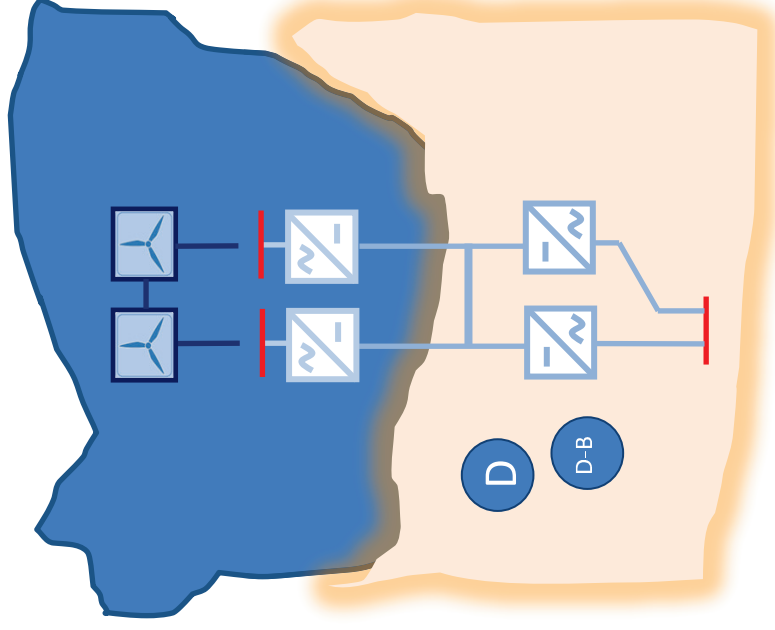
**DC Connection  
SZA – SZB  
Multiterminal**



**Embedded  
Multiterminal DC  
within one SZ**

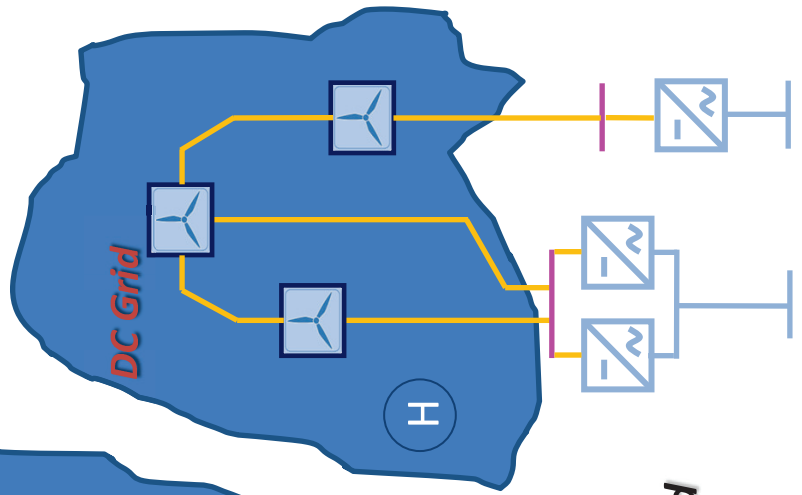


**DC-Multiterminal  
Connection  
OS-SZ**

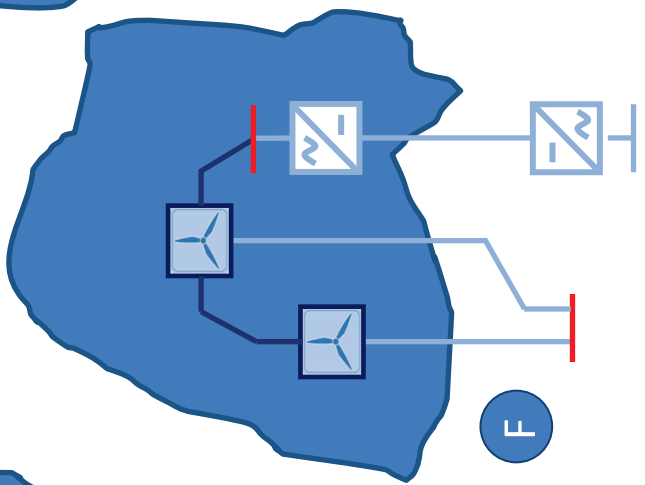




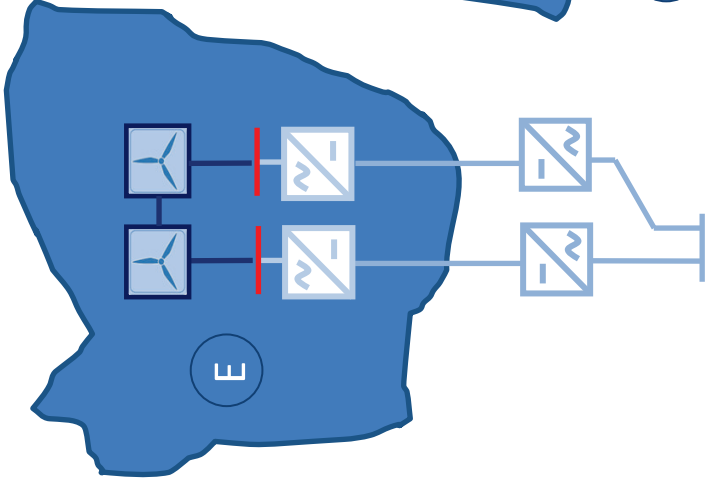
**DC GRID connected  
OS (DC) PPMs**



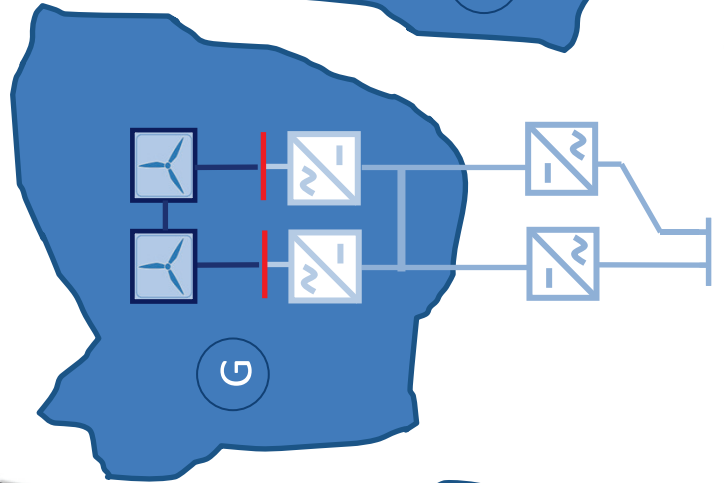
**Hybrid connected  
OS (AC) PPMs**



**DC connected OS  
(AC) PPMs**

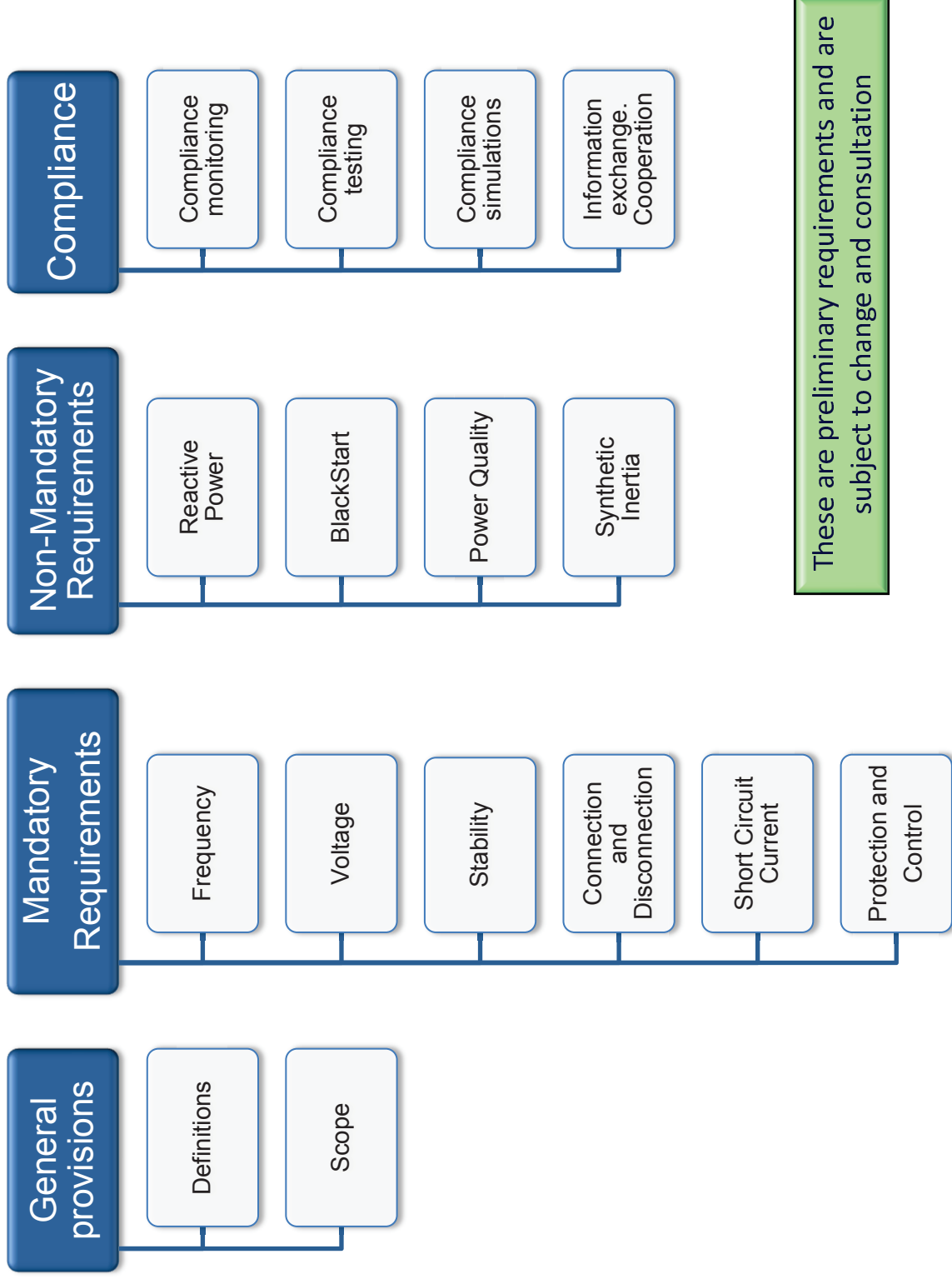


**DC GRID connected  
OS (AC) PPMs**



# Example of Requirements

# Example of requirement



These are preliminary requirements and are subject to change and consultation

# Network Code requirements

## Exhaustive requirements (Prescriptive)

- The Network Code lays down requirements and specific parameters
- ***E.g. Frequency per area***

## Non-Exhaustive requirements (Framework )

- The Network Code gives a coherent approach to formulate requirements
- Avoids divergence of requirements throughout Europe
- Specific setting of parameters based on a given legal framework, e.g. NRA approval, consultation, in mutual agreement, other Network Codes, ...
- ***E.g. reactive power provision***

## Principle requirements (Process)

- High level requirement on functionality
- Specific implementation prescribed by other agreements, national legislation, Network Codes, ...
- ***E.g. information exchange or cooperation***

## Key Areas for Participants

- Call for interest to join the user group is coming shortly on the ENTSO-E website.

What is the expectation of the audience for this Code?



# Network Codes CACM

1<sup>st</sup> SEM RA/TSO Stakeholder Forum

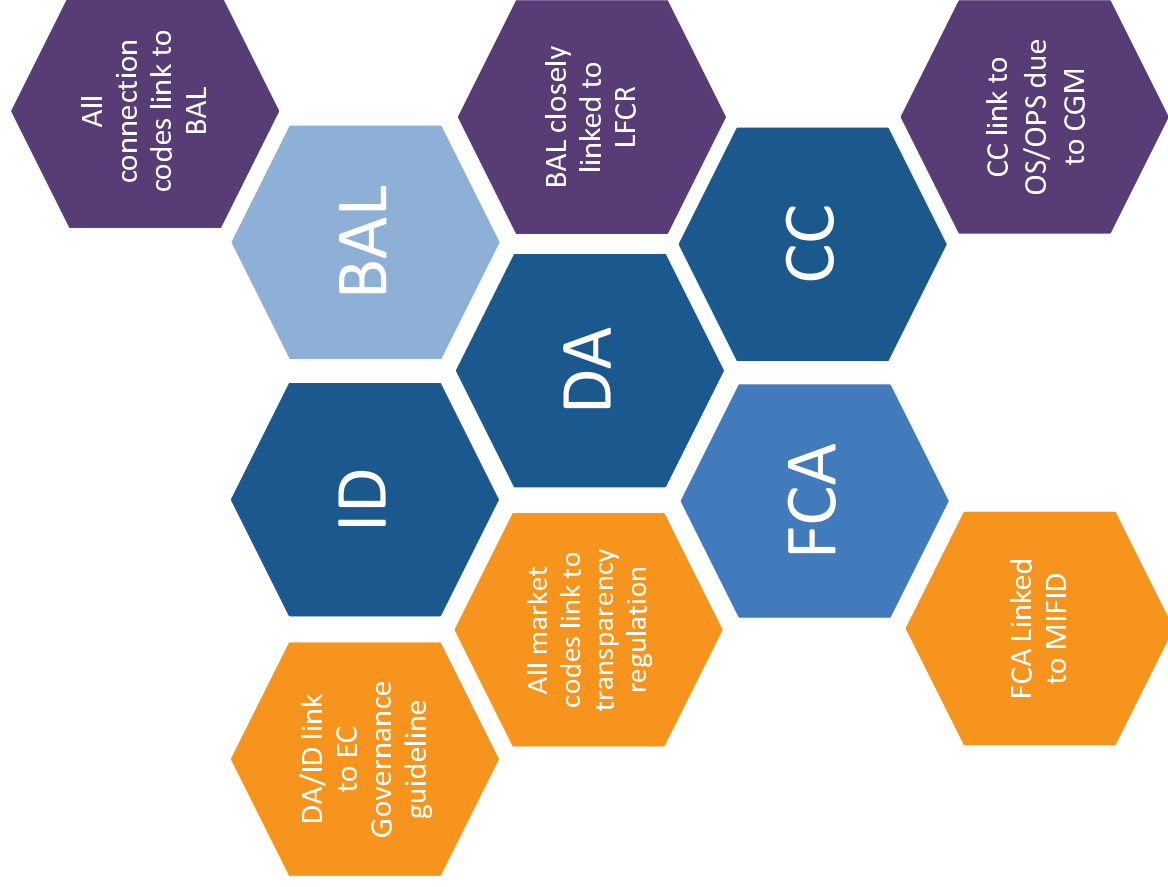
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17 January 2013





# Market Based Codes



- Capacity Allocation and Congestion Management was the first market code to be developed
- Followed by Forward Capacity Allocation
- The Electricity Balancing code will begin shortly.
- All market related codes tie into transparency regulation
- Day Ahead & Intra Day are closely linked to Governance Guideline
- FCA has strong links to MIFID

These codes have direct links to others;

- BAL to all connection codes
- Also to LFCR operational code
- Capacity Calculation links to both OS and OPS

# Stages of Network Code Development (I)

## Step 1- Scoping

- Identify a structure.
- Discuss key issues.
- Ensure a common understanding

## Step 2 - Drafting

- Draft text to meet the structure
- Discuss & refine
- Share with stakeholders & listen to views
- Develop supporting material

## Step 3 - Internal Approvals

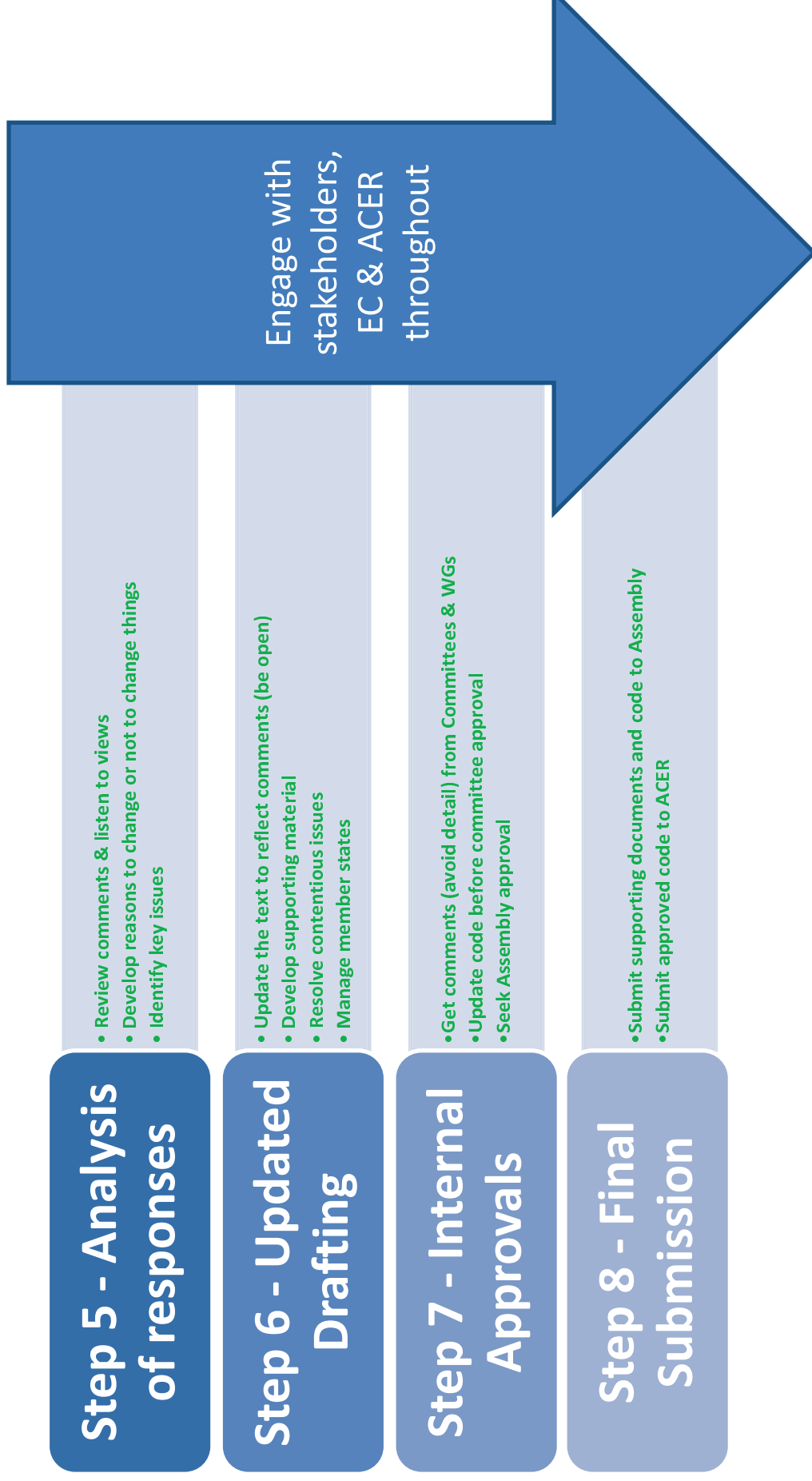
- Get comments (avoid detail) from Committees & WGs
- Update code before committee approval
- Seek Assembly approval to consult

## Step 4 - Public Consultation

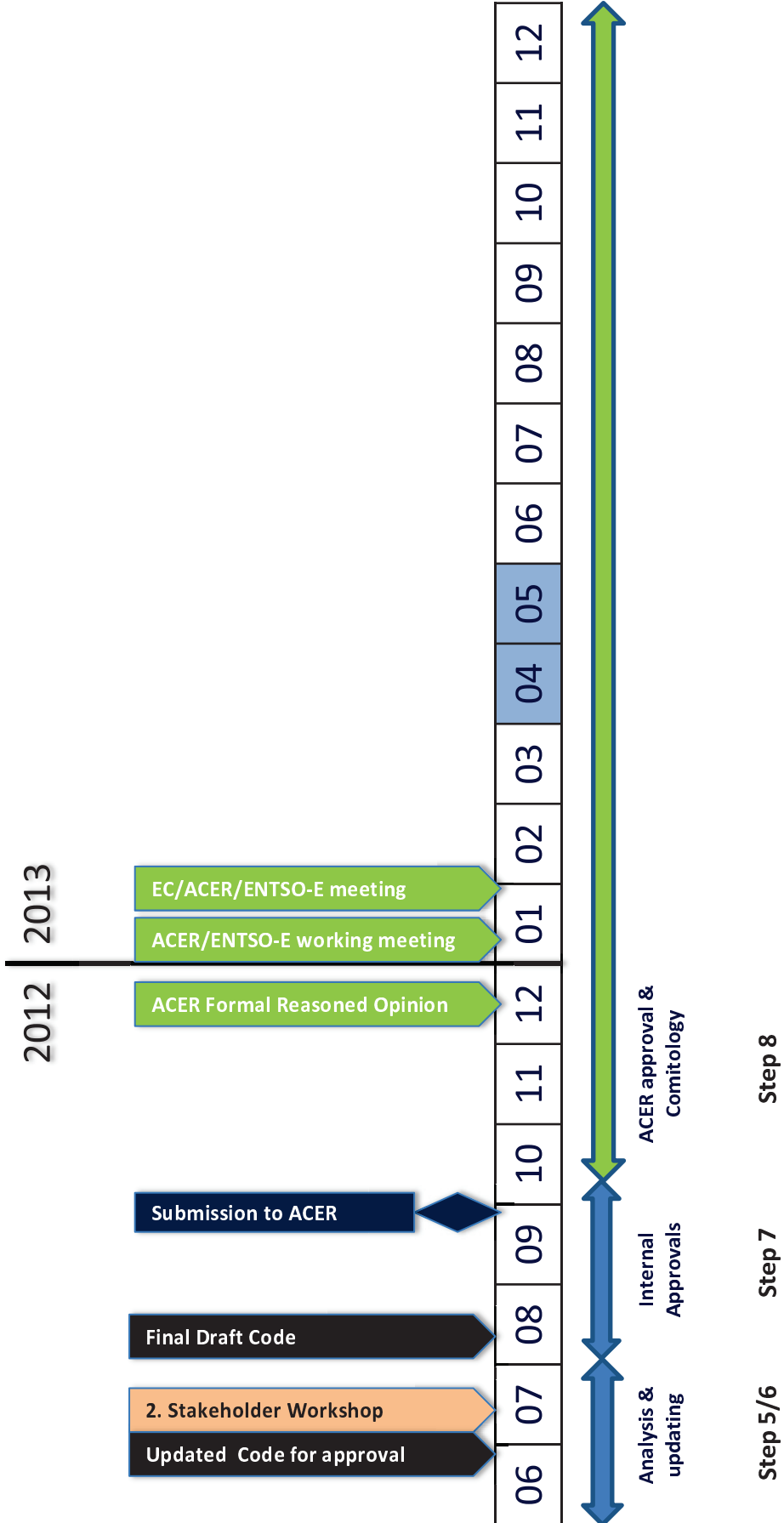
- 2 month consultation
- Listen to views (national and at EU level)
- Get ready for next steps (don't stop work)

Engage with stakeholders, EC & ACER throughout

# Stages of Network Code Development (II)



# Network Code Development – CACM



# CACM Network Code Contents (final)

## 1. General Provisions

Subject Matter & Scope, Definitions, Confidentiality obligations, CACM objectives, Consultation, Publication CACM methods, Transparency, Regulatory approvals

Articles 1-8

## 2. Governance:

Roles & Responsibilities

Articles 9-12

## 2. Requirements

Capacity Calculation

Articles 13-36

Bidding Zones

Articles 37-40

Redispatching & Countertrading

Articles 41

Algorithm Development / Amendment

Articles 42-44

Day Ahead Market

Articles 45-58

Intraday Electricity Market

Articles 59-71

Clearing & Settlement

Articles 72-75

Firmness

Articles 76-80

Congestion Income Distribution

Articles 81-82

XB Redispatching or Countertrading Cost Sharing Methodology

Articles 83-84

CACM Costs

Articles 85-90

## 4. Transitional Arrangements

Intraday arrangements

Articles 91-93

Objectives & Provisions of intraday arrangement

Articles 94-95

Island Systems with Central Dispatch

Article 96

## 5. Final Provisions

Article 97

# Other Developments

- Governance Guideline
  - meeting on 25 Jan
- CEMC
  - non-NWE TSOs
- Bidding Zone pilot study
  - Bidding Zone review of CWE, Denmark-West, CEE, Switzerland & Italy
- Cross-Border Redispatch
  - ACER/ENTSO-E joint task force – next meeting 29 Jan



# Network Codes Balancing

1<sup>st</sup> SEM RA/TSO Stakeholder Forum

Mark Lane

17 January 2013





# Stages of Network Code Development (I)

## Step 1- Scoping

- Identify a structure.
- Discuss key issues.
- Ensure a common understanding

## Step 2 - Drafting

- Draft text to meet the structure
- Discuss & refine
- Share with stakeholders & listen to views
- Develop supporting material

## Step 3 - Internal Approvals

- Get comments (avoid detail) from Committees & WGs
- Update code before committee approval
- Seek Assembly approval to consult

## Step 4 - Public Consultation

- 2 month consultation
- Listen to views (national and at EU level)
- Get ready for next steps (don't stop work)

Engage with stakeholders, EC & ACER throughout

# Stages of Network Code Development (II)

## Step 5 - Analysis of responses

- Review comments & listen to views
- Develop reasons to change or not to change things
- Identify key issues

## Step 6 - Updated Drafting

- Update the text to reflect comments (be open)
- Develop supporting material
- Resolve contentious issues
- Manage member states

## Step 7 - Internal Approvals

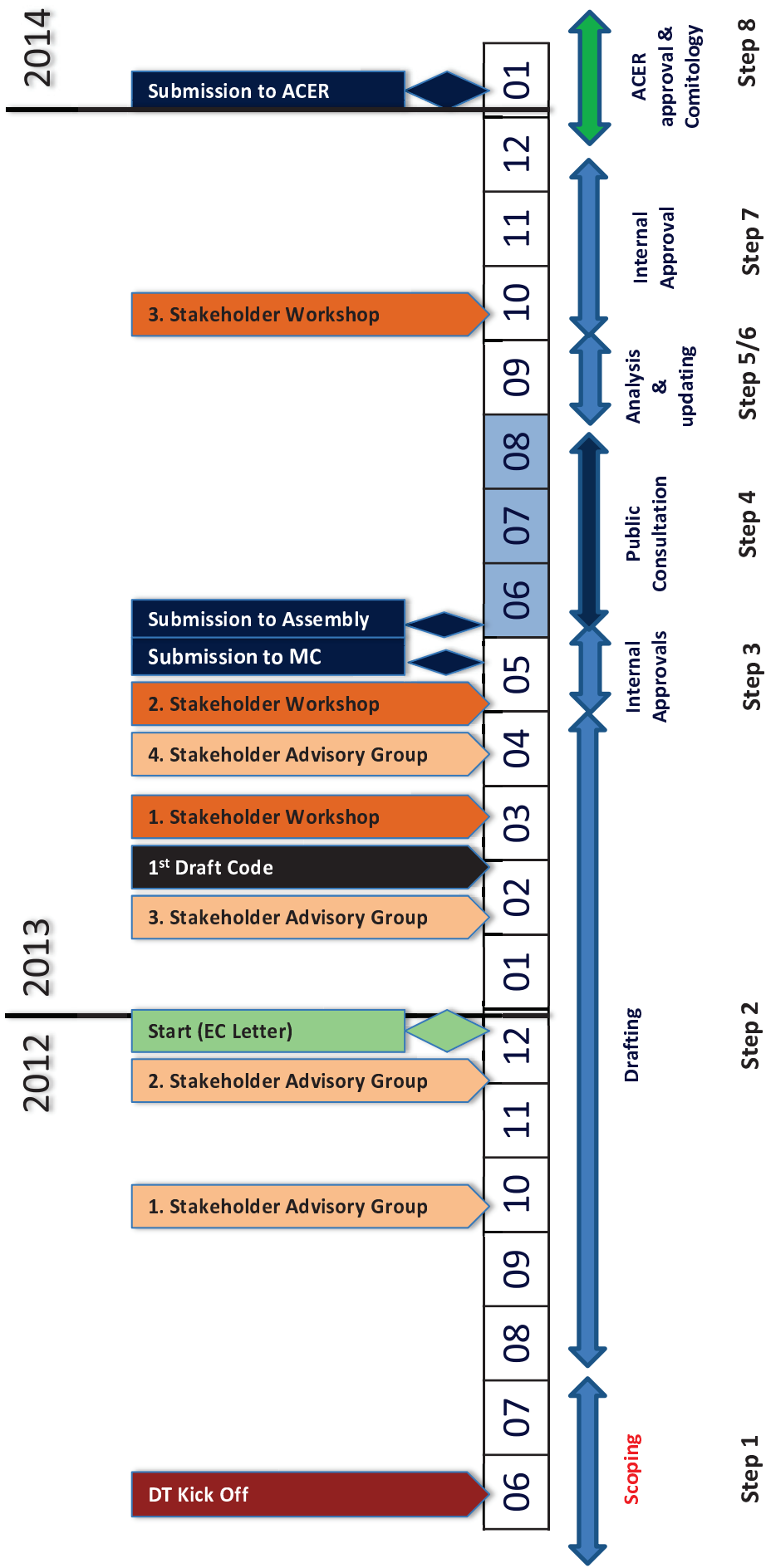
- Get comments (avoid detail) from Committees & WGs
- Update code before committee approval
- Seek Assembly approval

## Step 8 - Final Submission

- Submit supporting documents and code to Assembly
- Submit approved code to ACER

Engage with stakeholders, EC & ACER throughout

# Network Code Development – Balancing



# Other Developments

## Balancing Pilot Project(s)

- AESAG – June 2012 – request ENTSO-E to develop pilot project for balancing
  1. Test the feasibility of the balancing target model and intermediate steps established in the ACER Framework Guidelines on Electricity Balancing.
  2. Evaluate the associated implementation impact.
  3. Report on the experience gained.
- ToR being developed by ENTSO-E
- Call for pilot project nominations expected shortly with deadline for nominations likely by summer



# Network Codes FCA

1<sup>st</sup> SEM RA/TSO Stakeholder Forum

Mark Lane

17 January 2013



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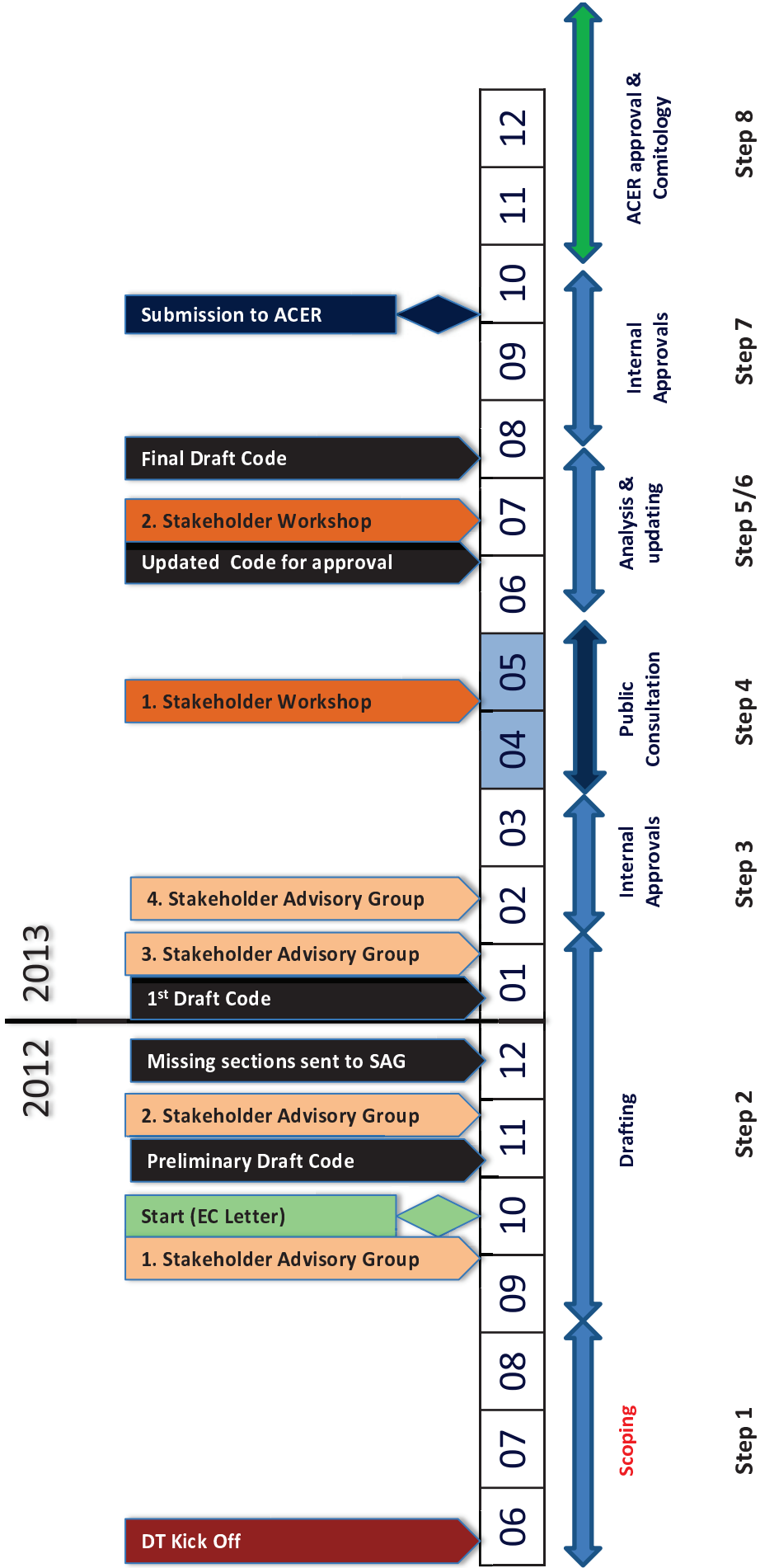
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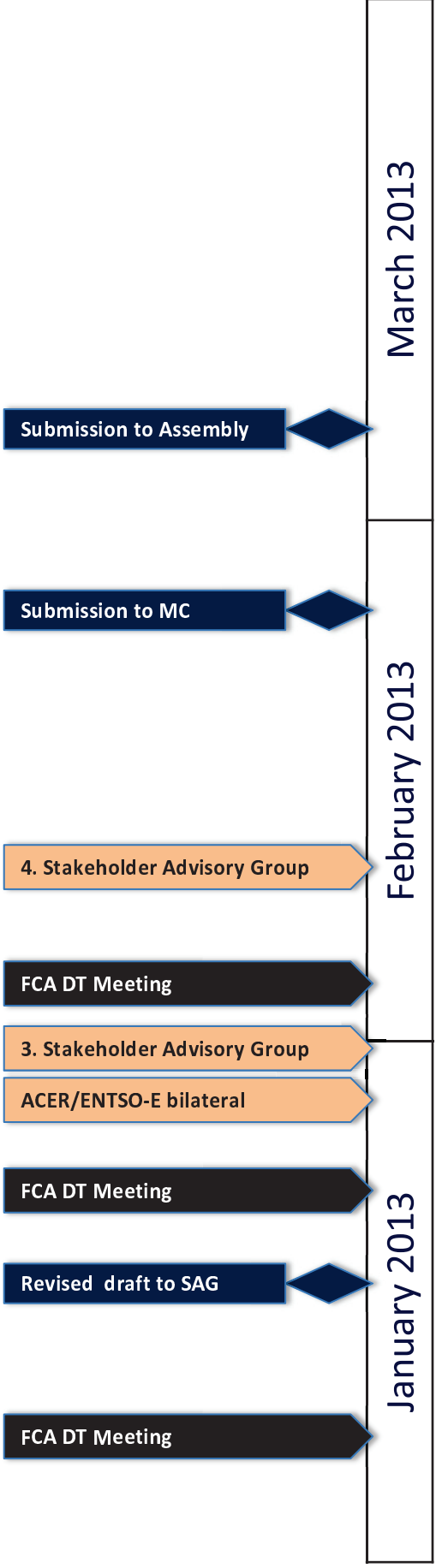


# Network Code Development – FCA



# Network Code Development – FCA

Q1 2013



Drafting

Internal Approvals

Step 2

Step 3

# FCA Network Code Draft Contents (1/10/12)

<p><b>1. General Provisions</b></p>	<p>Subject Matter &amp; Scope, Definitions, Confidentiality obligations, Consultation, Publication of information, Transparency of information, Regulatory approvals</p>		
<p><b>2. Governance:</b></p>	<p>Roles &amp; Responsibilities</p>	<p>Delegation of roles</p>	<p>Stakeholder Committee</p>
<p><b>2. Requirements</b></p>	<p>Capacity Calculation</p>	<p>CGM, CC Methodologies, CC Process, Biennial Reports</p>	<p>Allocation Rules</p>
	<p>Bidding Zones</p>		<p>Firmness</p>
	<p>Forward Capacity Allocation</p>	<p>Options for XB risk hedging, PTR Nomination, Processes/Operation</p>	<p>Congestion Income Distribution</p>
	<p>Allocation Platforms &amp; Secondary Trading</p>	<p>Establishment, Tasks, Requirements</p>	<p>Cost Recovery</p>
<p><b>4. Transitional Arrangements</b></p>	<p>Regional Allocation Platforms</p>	<p>Regional Allocation Rules</p>	<p>Transitional arrangements in CACM</p>
<p><b>5. Final Provisions</b></p>			

## Other Developments

### MiFID II

- 3 December – Council compromise
  - Exempts auction offices
  - Secondary markets may not be covered under exemption

