

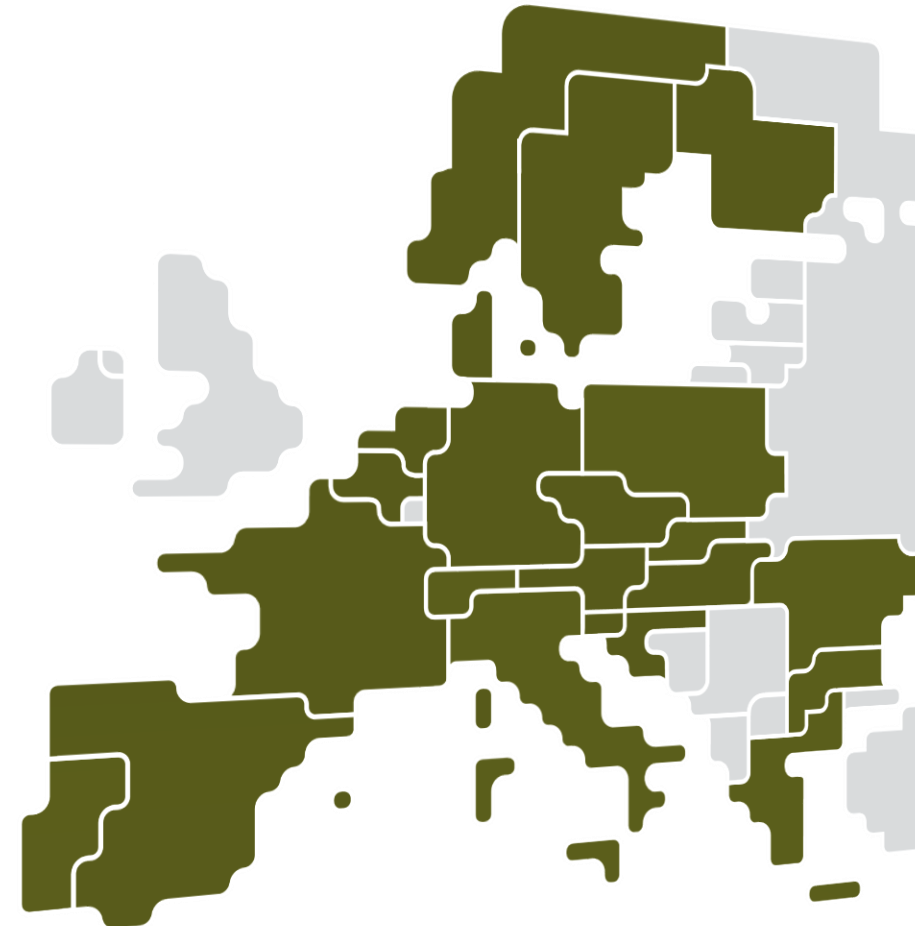
PICASSO



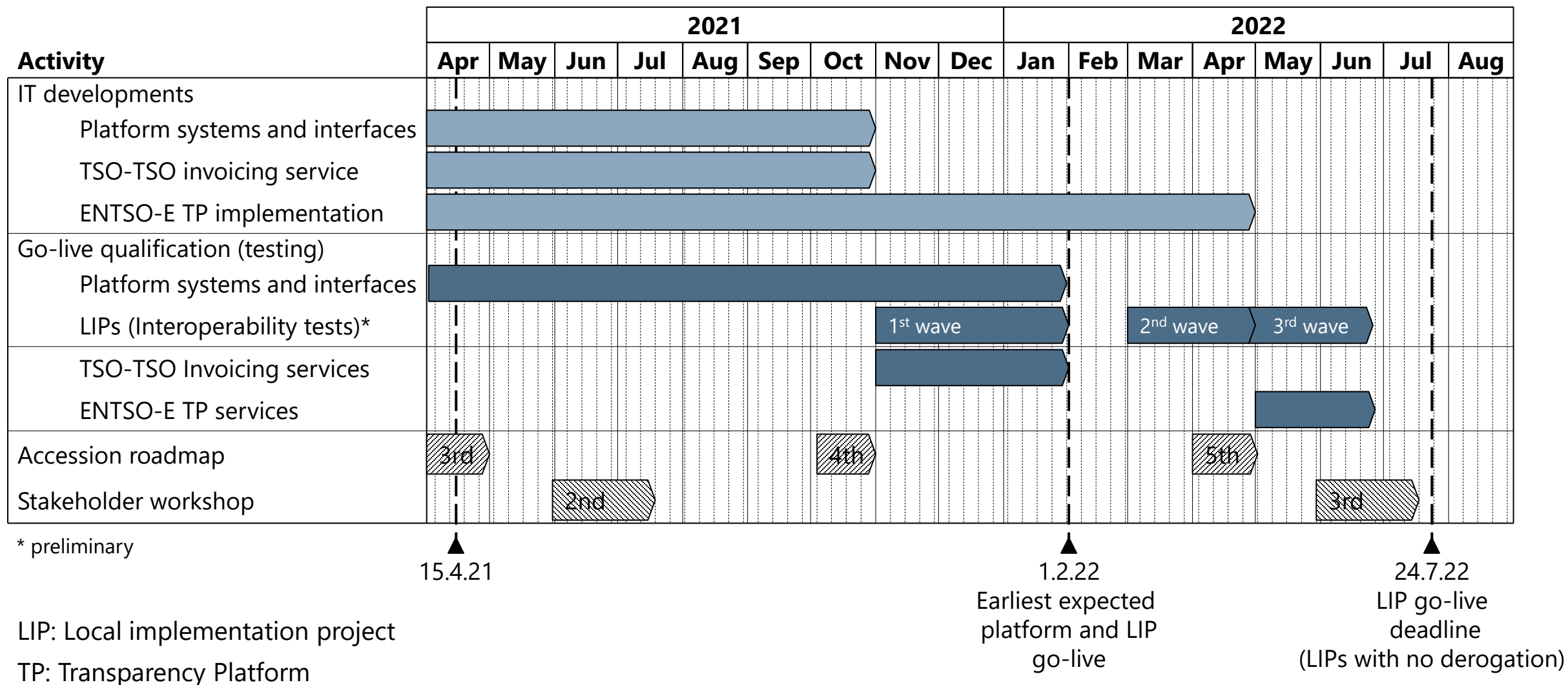
Platform implementation status

Prepared for ENTSO-E

EBSG, 21 April 2021



High level Project Plan (indicative)



PICASSO Project Overview



	Milestone	Objective	Status	Explanation	Issues, Risks, Mitigations
Specification	November 2020	All specs completed	Completed	Implementation Guide was approved in February	
(IT) Development - AOF - TSO-TSO settlement - TSO-invoicing service - ENTSO-E Transparency Platform	July 2020 May 2021 October 2021 July 2022	All AOF related functions Ready for IOT Ready for invoicing Ready for publication of balancing platform data	Completed Ongoing Ongoing Ongoing	FAT completed, fixes and retesting ongoing Billing agent selected Implementation plan ready, IT development to start Q3 2021	Non-critical delay by Covid-19; New lock-downs may lead to critical delays without possible mitigation
Communication infrastructure - ECP/EDX (application) - PCN (network)		Non-real-time com apps Network concept	Ongoing Ongoing	Target solution not available at go-live. Intermediate solution and migration strategy under development	
Testing and go-live preparation - Testing approach - FAT - SAT - IOT	Oct. 2020 Feb. 2021 Jun. 2021 Jan. 2022	Clear testing approach	Ongoing	FAT completed, remaining fixes and retesting ongoing	
Operational concepts and handbook - Operational procedures - Change Control Process - OPSCOM - OTF	Dec. 2020 Apr. 2021 Q4 2021 Mar. 2021	Implementation of operational governance	Ongoing	Operational procedures partly approved for testing. Completion of OH ongoing. Joint OTF with IGCC established. key principles of joint PICASSO/IGCC OPSCOM to be approved in April SC	
Accession roadmap	24/10/2020 24/04/2021	Accession roadmap second version published Updated twice a year	Closed Ongoing	Accession roadmap will be updated twice a year, call for input for the April 2021 update is launched.	COVID-19 impacting TSOs Local Implementation Projects;

FAT Factory Acceptance Test

SAT Site Acceptance Test

OTF Operational Task Force

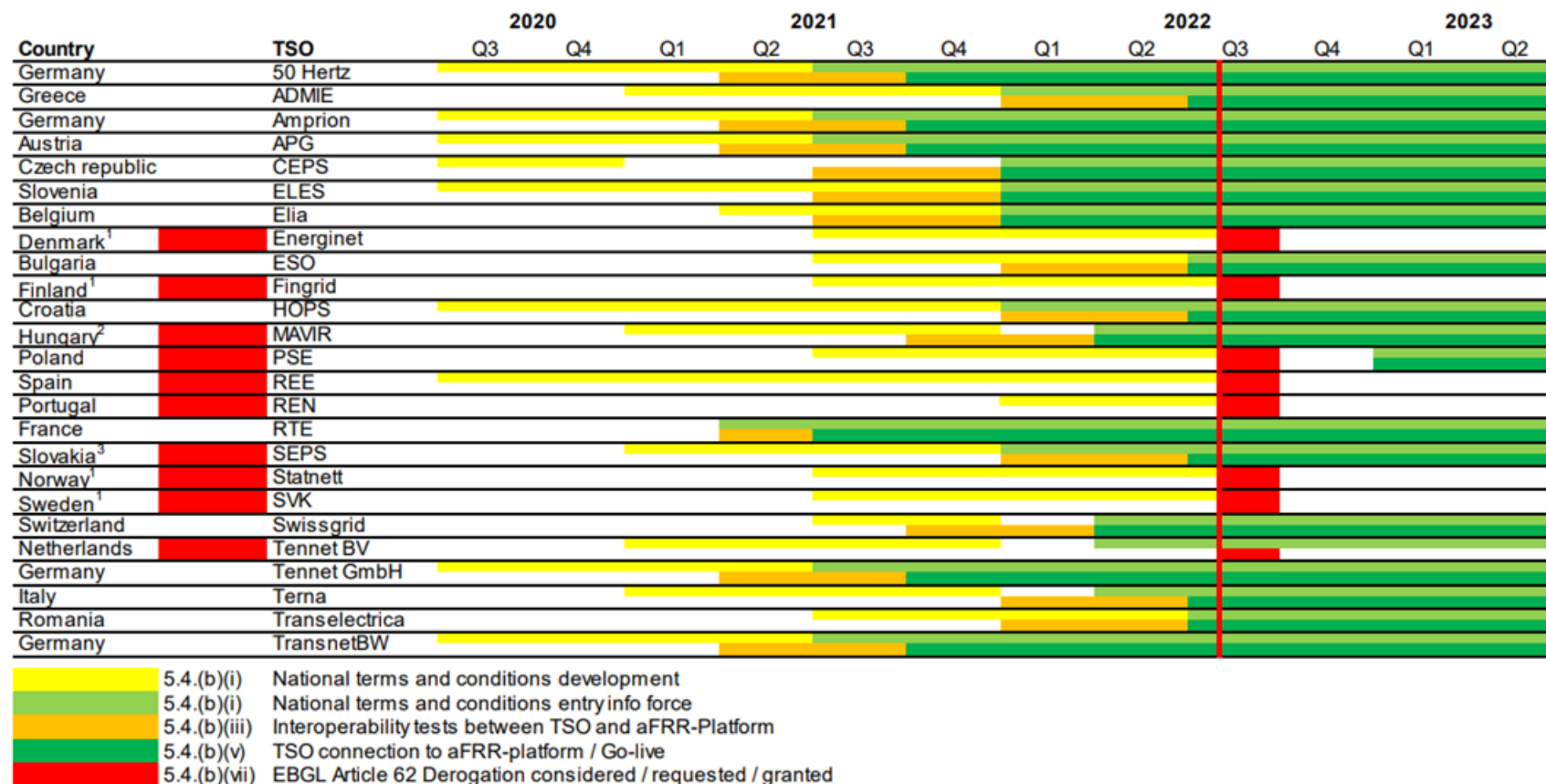
IOT Interoperability Test

OPSCOM Operational Committee

Accession roadmap

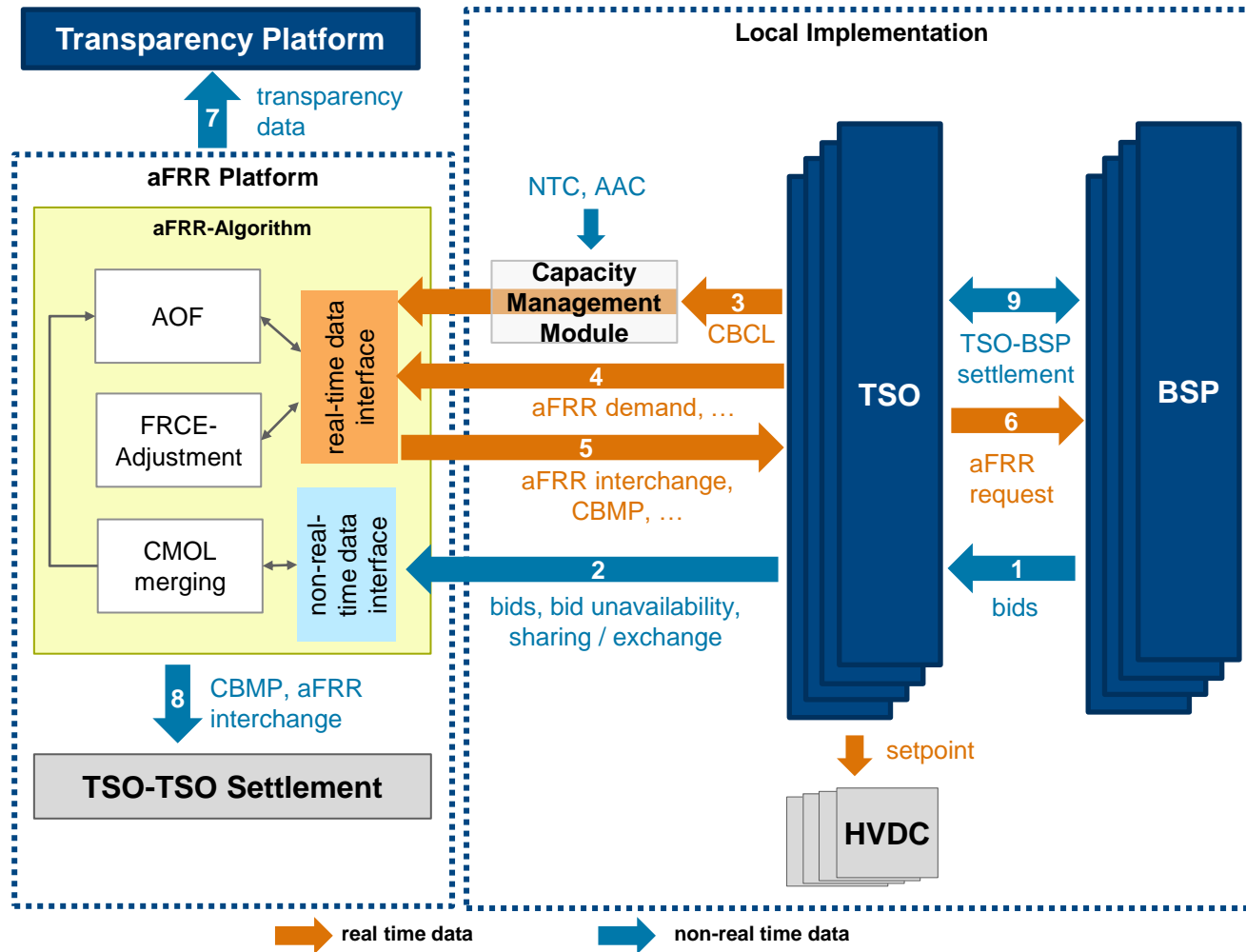


- Latest version published by ENTSO-E is from 13-10-2020
- Update process currently ongoing
- Result to be published by ENTSO-E in May 2021
- Expected changes:
 - More LIPs with a derogation or plan to request derogation
 - Connection of first wave of TSOs planned in Q1 2022



1) For Denmark, Finland, Norway and Sweden accession is possible Q3 2023 - Q2 2024. 2) MAVIR has already initiated discussions with its NRA with the intention to ask for derogation. 3) SEPS is going to initiate the discussion with its NRA with the intention to ask for derogation.

Last updated on 13/10/2020 – published 24/10/2020



AOF Activation Optimisation Function
 FRCE Frequency Restoration Control Error
 CMOL Common Merit Order List
 CBMP Cross-Border Marginal Price

NTC Net Transfer Capacity
 AAC Already Allocated Capacities
 CBCL Cross-Border Capacity Limits
 HVDC High Voltage Direct Current

1. TSO receives bids from BSPs in their LFC area
2. TSO forwards standard aFRR balancing bids to platform
3. TSOs communicate Cross-Border Capacity Limits to Platform
4. TSOs communicate aFRR demands to platform
5. Communication of clearing results to TSO
6. Communication of aFRR request from each LFC to BSP
7. Data Publication
8. TSO-TSO settlement process and invoicing
9. TSO-BSP settlement process and invoicing