







iNM - Supporting European Aviation



iNM managing

13,8 Million flights

by 2030

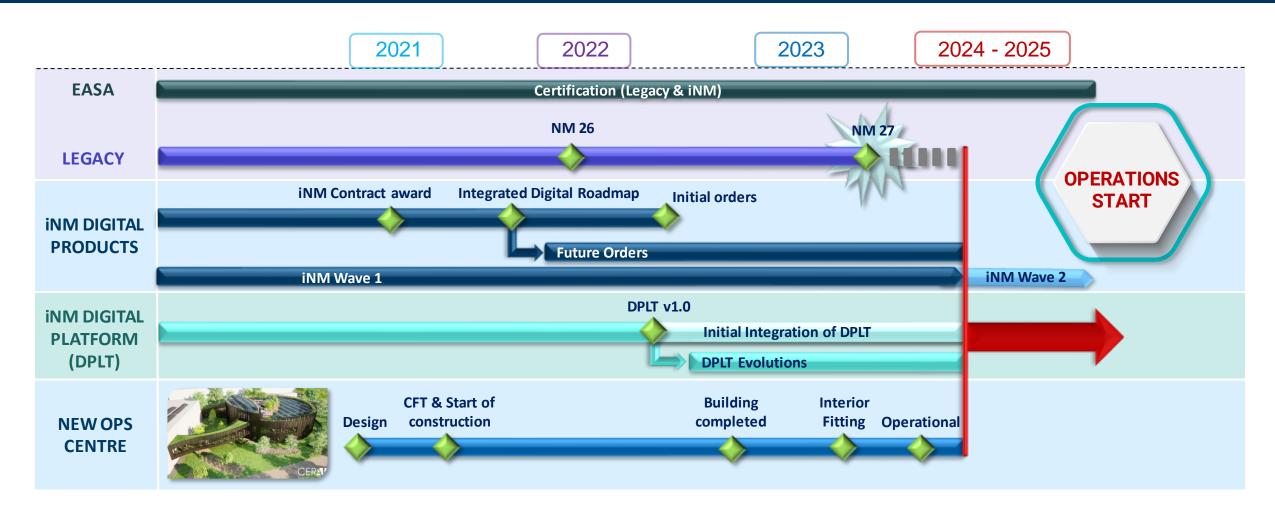








Today's Agenda











NM27.0



Role of NM27.0 in iNM Digital Journey



Providing compliance(CP1) and securing transition time to iNM

After NM27.0 until iNM transition, only technical release every six months to maintain existing NM services

NM User Forum 2023

NM27.0





Key NM27.0 deliveries to spot

- **NMP Flow:** Introduced mandatory Cherry-pick(MCP) regulation support, traffic counts & overall load monitoring dashboards/count features
- NMP Flight: Moved towards maturity state, mainly improved usability and adapted AO feedbacks
- Advanced FUA: Introduced capability for FMPs locally to update RAD-AUP RSs, local flexibility
- GRRT: Improved significantly Rerouting tools/algorithms & monitoring, major changes to provide more RR opportunities
- Occupancy CASA prototype will be available for operational use in live trials
- First phase of improved Operational Air Traffic (iOAT) flight planning has been introduced

NM User Forum 2023

NM27.0



Next Steps to know more about NM27.0!





- NM27.0-RN updates published at the first week of each month
- Test: OPT Test:15/2-30/3
- PreOPS Validation: 21/3 onwards
- Technical OPS-Migration: 27/4-2/5

NM User Forum 2023





Centre

2-3 February 2023











- 15 months construction time
- 5.000 m² in total
- Flexible space
- 1 large & 4 smaller operational rooms
- 5 meeting rooms
- Visitor gallery
- Recreation area for operational staff
- Eco certification level "Excellent"
- Electrochromic glass



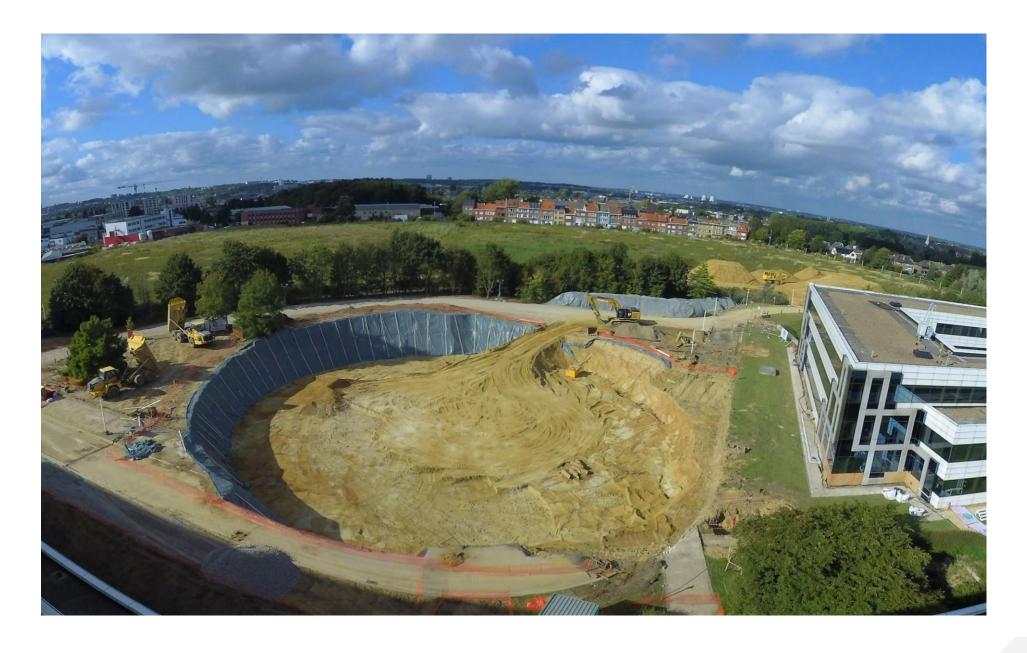
Construction in record time





August 2021





September 2021





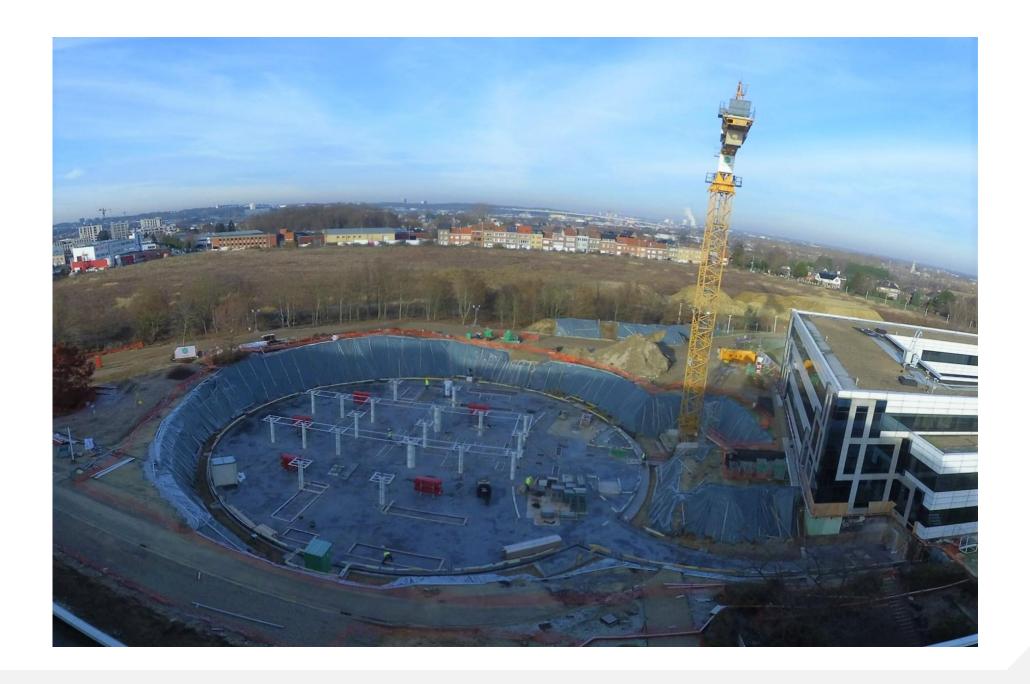
October 2021





November 2021





December 2021





January 2022





February 2022





March 2022





April 2022





May 2022





June **2022**











August 2022





September 2022





October 2022





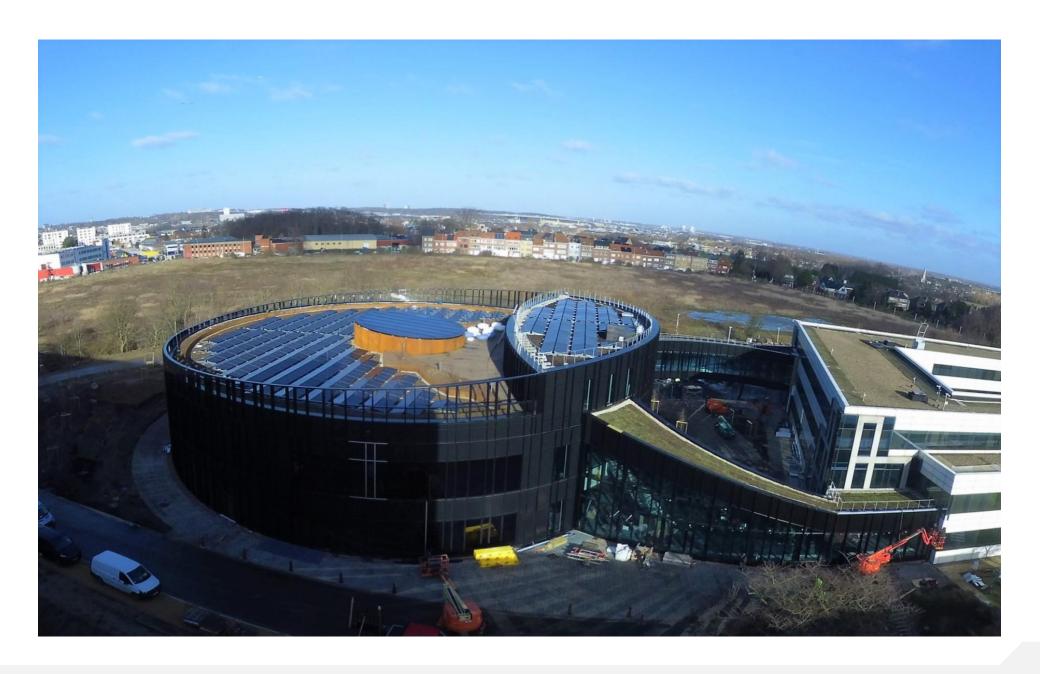
November 2022





December 2022





January 2023



Interior layout



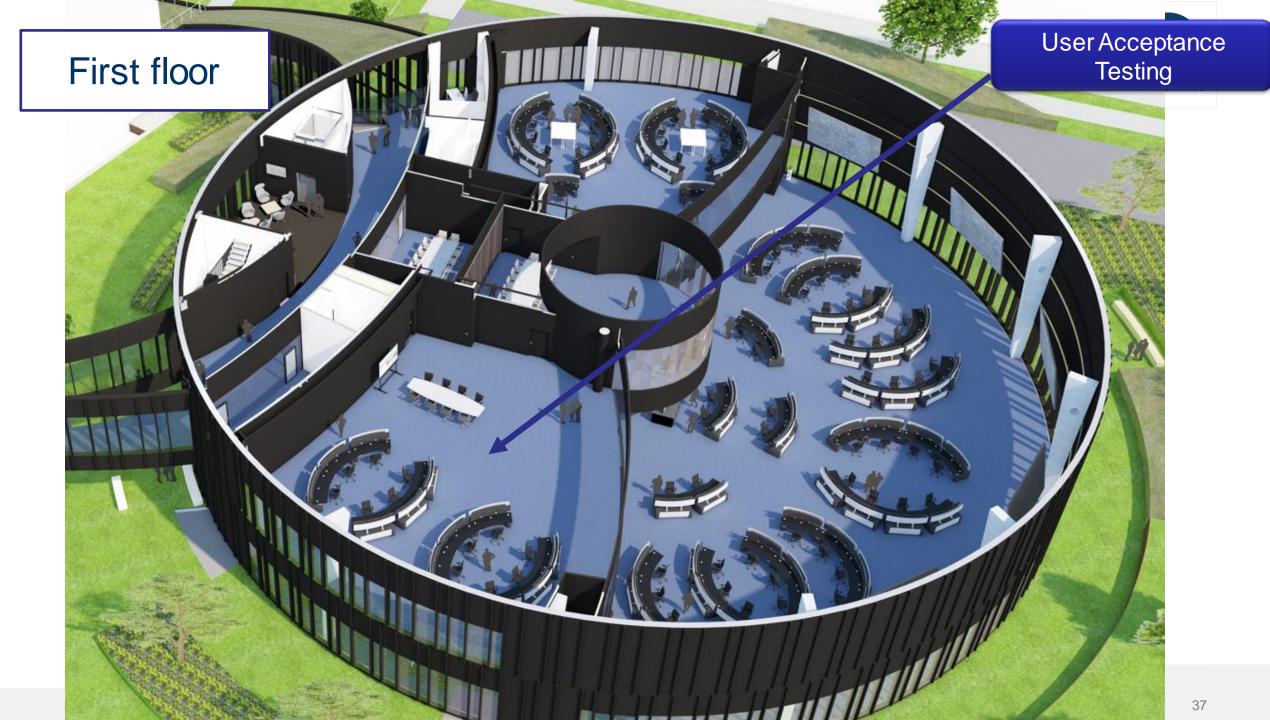


























Terrace





Lounge Area



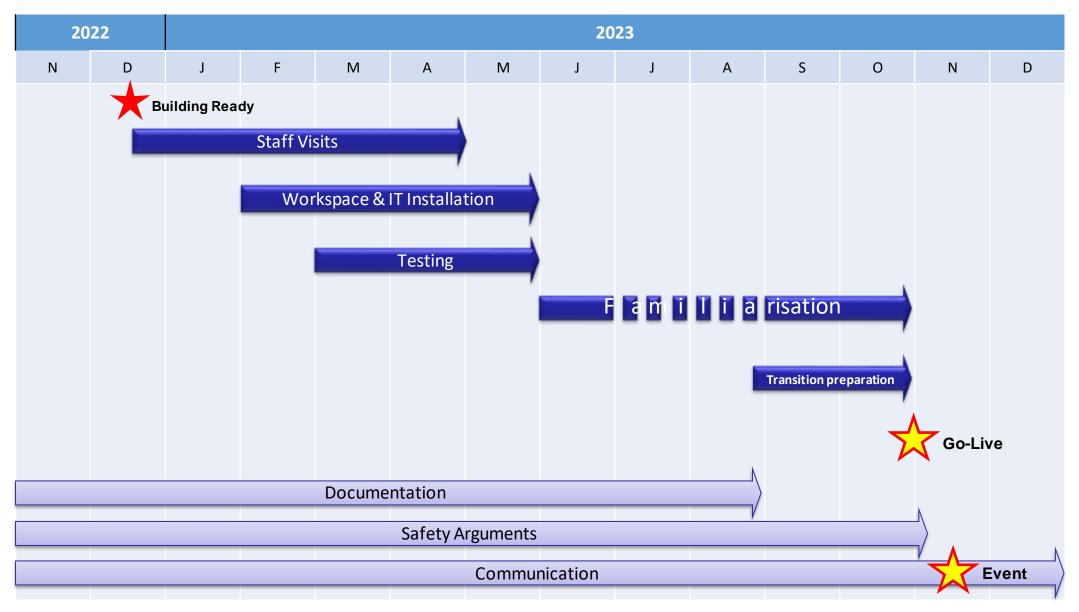


Enhanced Rest Facilities



Transition Plan











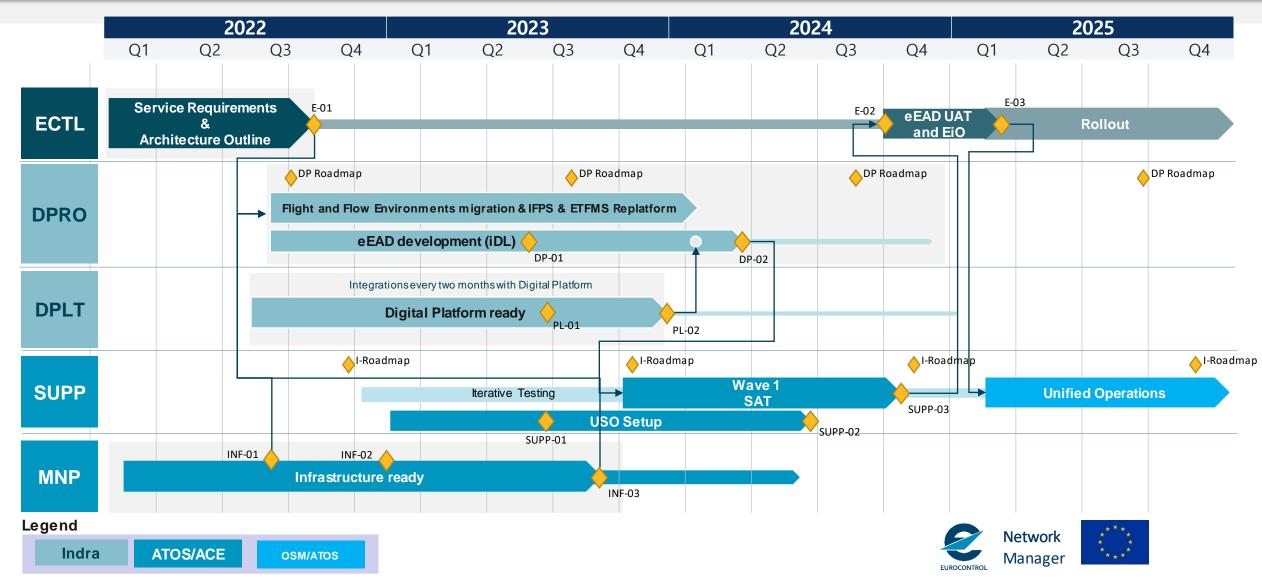


Milestones





iNM Programme Waves - Wave 1

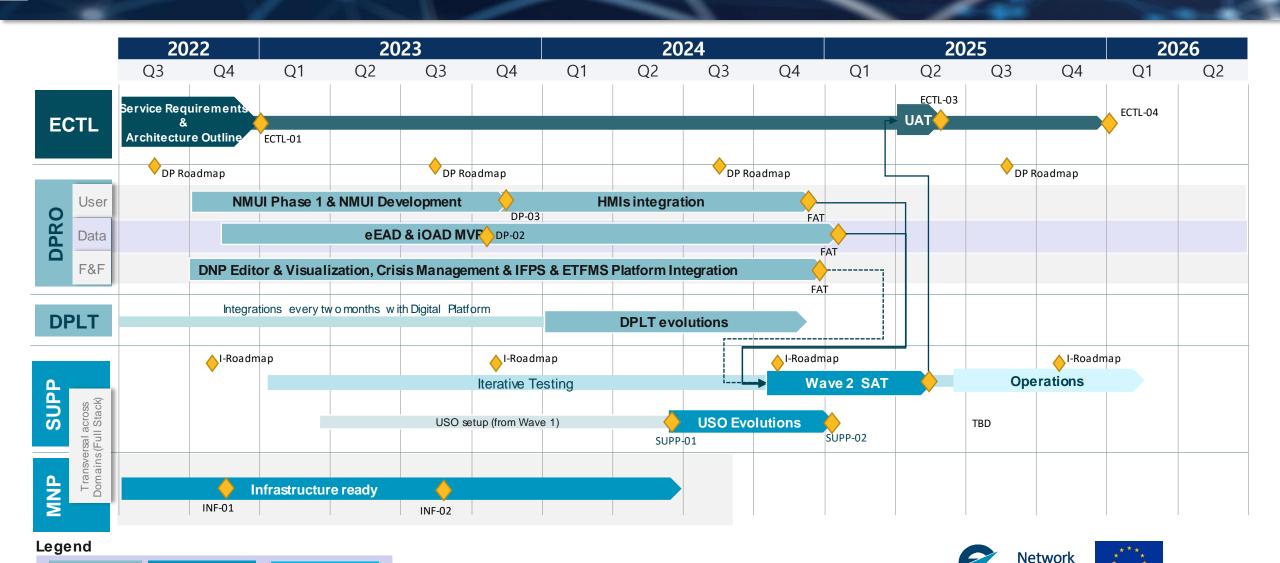


iNM Programme Waves – Wave 2

Indra

ATOS/ACE

OSM/ATOS



Manager

iNM Master Programme Plan – Introduction ... Responsibilities of the Parties

Testing and entry into Definition Development operations **Executes UAT** Provides Service Requirements Validates system requirements Create End User Operational Approves Architecture procedures **EUROCONTROL** Execute certification process Conduct entry into operations Operational roll-out Proposes solution architecture Develops system requirements Support testing activities **DPRO&DPLT** Develops software and integration From requirements, estimates the (INDRA) sizing of environments activities Iterative testing of digital products Integrate, deploy software Design underlying infrastructure SUPP&MNP Launch ITIL, DevSecOps, release **Execute SAT** inc. Cloud enablement (ATOS/ACE) Support entry into operations processes Establish release processes Launch Bridge & Monitoring Design Bridge and Global Network capability. monitoring Manager

DIGITAL PLATFORM



The Digital Platform is a technical layer that enables development, deployment, hosting, operations and governance of the Digital Products.











INM PROGRAMME WAVES



WAVE 1

WAVE 2

WAVE 3+



Initial IDL

Limited to AIS Data Maintenance



Digital NOTAM

CP1 compliant, early adopters only



Partial IDL

Integrating EAD



IFPS & ETFMS





Dynamic Network Plan

Editor & Viewer



Crisis Management

EVITA, AIREP, Portal



NMUI

New NM User Interface built on NMP consultations



Full IDL

Integrating CACD



Airspace Management



Network Performance

Simulation & Network Impact



Integrated Flight & Flow

Single flight view



NMUI evolutions

CHMI & EHMI replacement



Data Services

Business Intelligence



WHAT'S BEEN ACHIEVED?









01 Integrated Data Layer



02 DNP & CRISIS

03 NM User Interface

USER FORUM 2023

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IDL - INTEGRATED DATA LAYER What will be delivered?





Brand new EAD

Ready for the Digital World!

Introducing

- Full Digital NOTAM and ePIB
- Meteo in PIB (OPMET)
- AIXM 5.1.1 format
- A modern User Interface

IDL - INTEGRATED DATA LAYER How will it happen?





Smooth Transition

Business Continuity

- User consultations
- Early adopters 2024
- Gradual migration of EAD clients
- Training and certification
- End of two years transition in 2027

DNP & CRISIS What will be delivered?





From Daily to Dynamic, Interactive and Visual

Integrated and Coherent CRISIS Management Tools and Resources

Dynamic Network Plan

- Enhanced Editor
- New Interactive Viewer

Crisis Management

- EVITA & AIREP
- CRISIS PORTAL
- NARRATOR+

NMUI – NM USER INTERFACE What will be delivered?





Designed with Users for Users

- Single entry point to NM
- Leveraging on NMP (Flight & Flow)
- New Information Hub, bringing Relevant Data at a glance
- Fresh & Consistent Look & Feel
- Tailored to User's Tasks







