GN4 Status

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Nordic NREN CTO Forum

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- EU Research and Innovation Program
  - 7 years – 2014-2020
  - ~80 b€ (100 bSEK/year)
- Follows previous Framework Programs
  - Framework Program 7 (FP-7), FP-6, etc.
- Funds a large number of initiatives
  - All science areas
  - Infrastructure for science
  - Flagship projects
  - Public-Private partnership – support for European industry
- The home of GÉANT
  - + EC Future Internet program
  - + many "smaller" calls relevant for Nordic NRENs

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Horizon 2020 – Big Picture

Excellent Science

- European Research Council

- **Future and Emerging Science and Technologies (FET)**
    (includes Flagships)

- Marie-Curie Actions

- **Research Infrastructures**
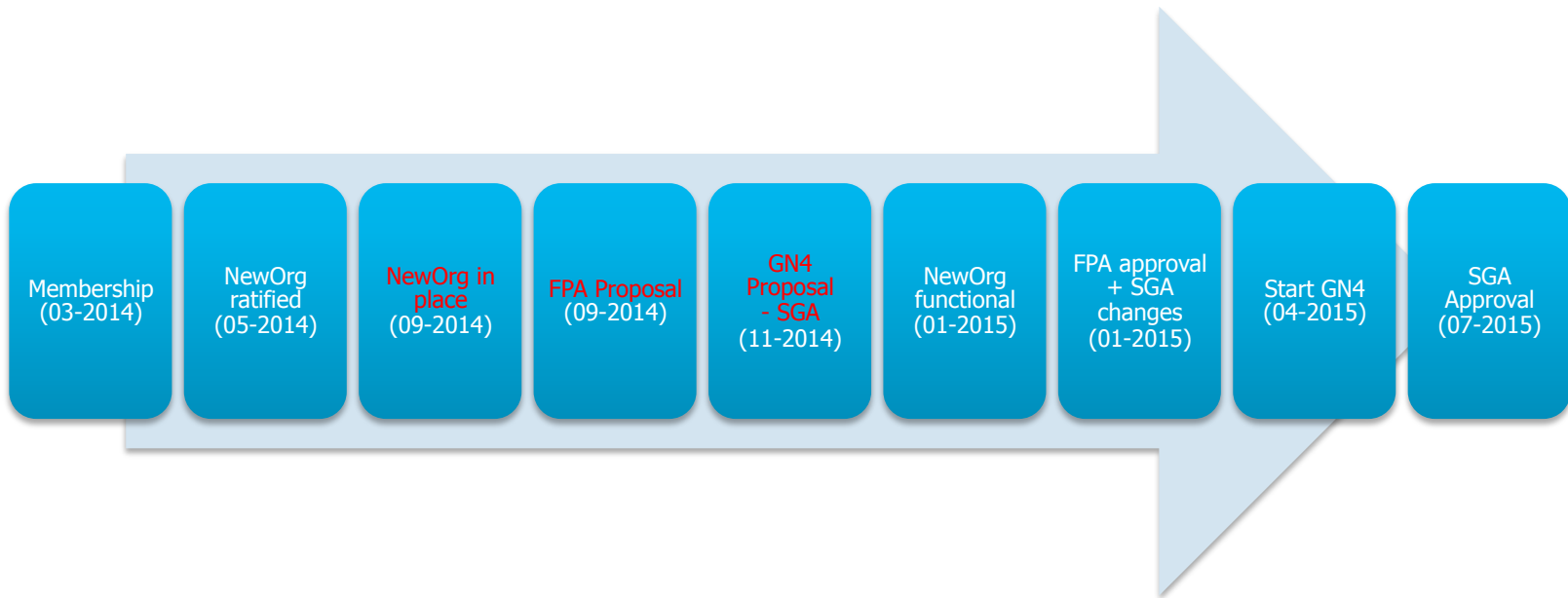   *(includes e-Infrastructures)*

Industrial Leadership

- **Leadership in Enabling and Industrial Technologies (LEIT)**
    (includes ICT, which includes Clouds, FI, EU-Brazil, EU-Japan...)

- Access to Risk Finance

- Innovation in SMEs

Societal Challenges

- Health, Demographic Change and Wellbeing

- Food Quality and Marine Research

- Secure, Clean and Efficient Energy

- Smart, Green and Integrated Transport

- Climate Action, Resources and Raw Materials

- Inclusive, Innovative Societies

- Secure Societies

- 7 Year Program for GÉANT
  - Aligned with Horizon 2020
  - Aligned with "GÉANT Expert Group" report
  - Funding available in phases – 1+3+3 years
- Framework Partnership Agreement (FPA)
  - Strategic agreement between NRENs and EC
  - Covers 7 year period
  - Based on "GÉANT Strategy" and high-level objectives
  - Basis for agreeing (and funding) specific work programs
- A new way of organizing GÉANT
  - Ask for more strategic focus and alignment of NRENs
  - Driver for the merger

GÉANT Merger timeline
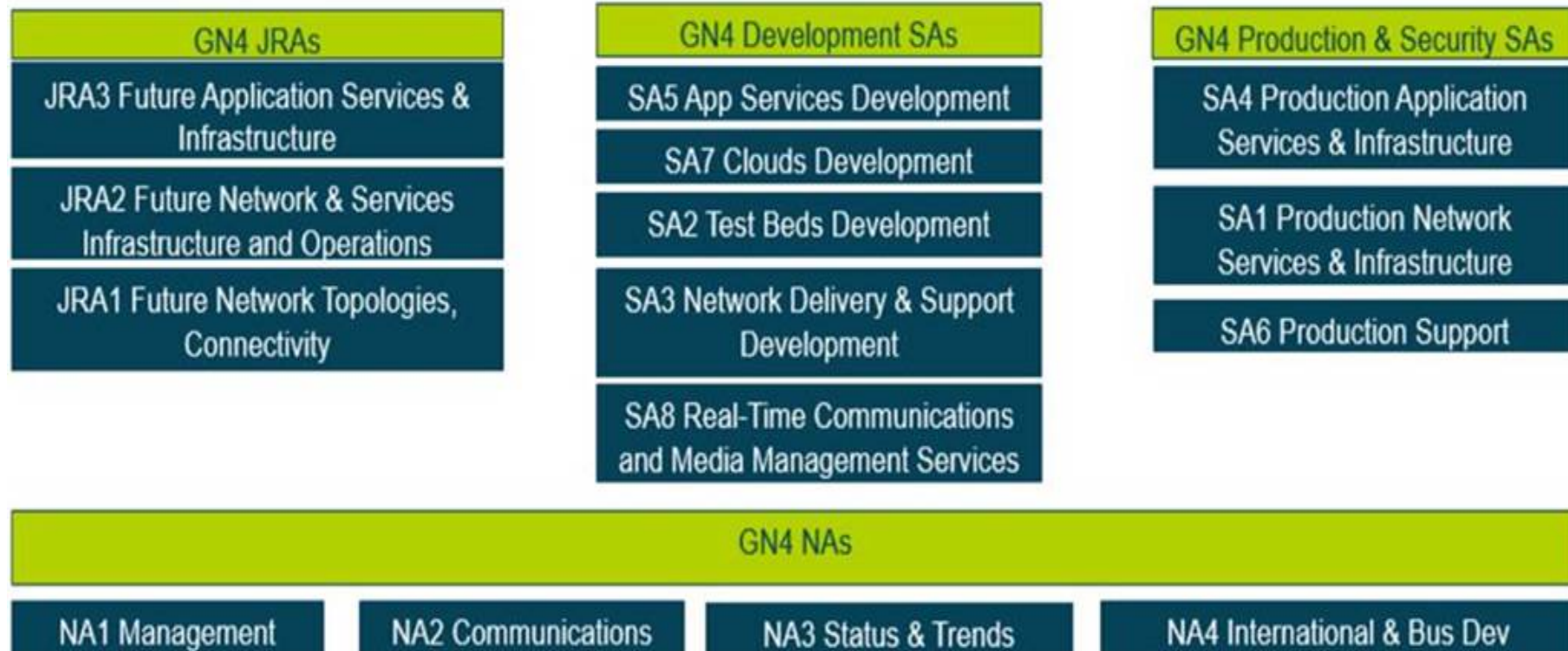
Membership (03-2014)

NewOrg ratified (05-2014)

NewOrg in place (09-2014)

FPA Proposal (09-2014)

GN4 Proposal - SGA (11-2014)

NewOrg functional (01-2015)

FPA approval + SGA changes (01-2015)

Start GN4 (04-2015)

SGA Approval (07-2015)

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- # Formed by the NREN PC
  - Oversee process of responding to EC H2020 call(s) for GÉANT
  - Proposals for FPA, work programs, …
  - Members: GN3+ Exec, SIC chair, DANTE + TERENA management
- # GÉANT Strategy & Innovation Committee (SIC)
  - Output: GÉANT strategy, basis for FPA
  - Chair: Erik Huizer, SURFnet
  - Nordic member: Martin Bech, DeIC
  - Report delivered summer 2014

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- Strategic objectives and vision
- Implies no commitment for EC funding
  - No specific promises
  - No specific deliveries
- Headlines
  - A: Drive the Evolution of the Network
  - B: Support the Knowledge Community
  - C: Provide Security, Trust and Identity
  - D: Deliver Collaborative Ecosystem
  - E: Develop Human Capital
  - F: Enable GÉANT's Ongoing Development
- Submitted on 2 September 2014

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- ## Specific Grant Agreement (SGA)
  - Contract for work under an FPA
  - One FPA can have many SGA's, in series and/or in parallel
- ## First call: SGA proposal GN4 Y1
  - April 2015 – March 2016
  - A single description of work, as GN3
  - Deadline: November 2014
- ## Expectation
  - 2 x 3-year calls: 2016-2018, 2018-2020
  - May be a single DoW, or multiple, parallel DoW's – not decided yet.

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- New project, but just one year
  - Will in practice be extension of GN3+
  - Splits Service Activities (SAs) into "Development" and "Operation"
  - Introduces "Media" SA
- Draft Description of Work
  - Prepared by existing GN3+ activity leaders
  - NREN input via Call for Ideas phase
- Staffing
  - Activity Leaders: The Usual Suspects
  - Task Leaders: call just completed
  - Task members: call out ultimo September
- Work in progress
  - Finish Description of Work
  - Fix activity and task budgets
  - Staffing

GN4 JRAs

- JRA3 Future Application Services & Infrastructure
- JRA2 Future Network & Services Infrastructure and Operations
- JRA1 Future Network Topologies, Connectivity

GN4 Development SAs

- SA5 App Services Development
- SA7 Clouds Development
- SA2 Test Beds Development
- SA3 Network Delivery & Support Development
- SA8 Real-Time Communications and Media Management Services

GN4 Production & Security SAs

- SA4 Production Application Services & Infrastructure
- SA1 Production Network Services & Infrastructure
- SA6 Production Support

GN4 NAs

| NA1 Management | NA2 Communications | NA3 Status & Trends | NA4 International & Bus Dev |

- Useful first step to a better structure
- More work needed (GN4 Y2+)
- Could be split into several projects

GN4 Activity Leaders

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Activity Leader		GN4 Phase 1 Activity
Tony Breach	JRA1	Future Network Topologies, Connectivity
Afrodite Sevasti	JRA2	Future Network & Services Infrastructure and Operations
Remco Poortinga-van Wijnen	JRA3	Future Application Services & Infrastructure
Tryfon Chiotis	NA1	Management
Melanie Pankhurst	NA2	Communications & Promotion
John Dyer	NA3	Status & Trends
John Chevers	NA4	NREN and Stakeholder Support
Mark Johnston	SA1	Production Network Services & Infrastructure
Jerry Sobieski	SA2	Testbeds Development
Brian Bach Mortensen	SA3	Network Delivery and Support Development
Ivana Golub	SA4	Production Application Services and Infrastructure
Ann Harding	SA5	Application Services
Toby Rodwell	SA6	Production Support
Andres Steijaert	SA7	GÉANT Supply Chain
Peter Szegedi	SA8	Real-time communications and media management services

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- No calls yet
  - Clear indication that there will be Y2- Y4 activity
  - Not clear if it will again be a single SGA
- GN4 Year 2 starts April 2016
  - … which means we're already late
  - If we want more than just "business as usual", we need to start now
  - … and we need a better idea process
- Some objectives
  - Continue to evolve new structure
  - Reduce cost, be more agile
  - Better fit with big picture of new GÉANT organization
  - Better workplan preparation method
- NORDUnet will start formulating our ideas
  - We need input
  - NORDUnet staff, Nordic NRENs, other stakeholders
  - Homework → Influence