



Statens vegvesen

A Strategy for Standardisation

TC 59 - Building for the Future
19 October

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Norwegian Public Roads Administration



Photo: Norwegian Road Museum



How can we combine technical expertise
with strategic ambition in our approach to standardisation?

Foto: Øyvind Ellingsen

Clear priorities and coordinated effort

What we want to achieve

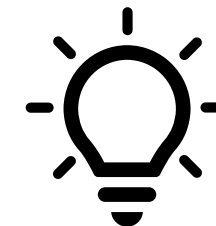
- Clear goals and priorities
- A stronger link between effort and expected benefits
- Shared expertise across NPRA
- A clear role for NPRA in the sector

Capabilities we need

- A coordinated overview of activities and priorities
- Clear mandates and ownership
- Resources aligned with strategic priorities
- Skills for effective participation and implementation



Our starting point: substantial standards work



- NPRA contributes at every level
- Across key technical and management areas
- 60+ committees in Norway and internationally
- Up to 80 participants at different engagement levels

2028-01-01: SNK 007 Referansegruppe for Betongområde 2028-05-01: SNK 078 Mulokonstruksjoner 2029-01-01 : SNK 068 Aluminiumkonstruksjoner - SNK 068. EN 1999, EN 1990-3, ISO/T C167 2029-02-01: SNK 072 Referansekasse for stålkonstr.- SNK 072 stålkonstr./EN 1990-3, EN 1994 2030-01-01: SNK 077 Trekonstruksjoner –CEN (TC 250/C5 S) 2032-14-01: SNK 363 Vegetaler 2032-16-01: SNK 005 Teling - SNK 005 Teling CEN (TC 154) 2032-24-01: SNK 364 Bitumen og bitumønlige bindemidler 2033-02-01: SNK 223 Miljøstandarden i BAE-næringen 2033-14-01: SNK 255 Miljøprogram og miljøoppfølgingsplan ytre miljø 2033-15-01: SNK 594 Utløpsfor byggelasser 2033-16-01: SNK 605 Sirkulær økonomi BAE-næringen 2039-24-14 Digitalisering BAE - PDI og analysefaser 2033-21-01: SNK 637 Klimagassberegninger for infrastruktur 2046-01-01: SNK 615 EU u-ladeinfrastruktur for bil 2046-17-01 SNK 059 Skip- og Marineologi 2046-01-01: SNK 619 Innovativ teknologi 2048-03-01: SNK 182 Hydrogenologi 2055-03-05: SNK 149 Kulvestledelse 2080-01-03:SNK 163 IT-standardisering - Nasjonalt 2035-03-01: SNK 536 Asset management - (ISO/TS 251 Asset management) 2085-03-01: SNK 176 Geografiske informasjonssystemer - Nasjonalt 2085-02-03: SNK 175 Intelligente transportsystemer - Nasjonalt 2085-03-01: Internasjonale sekretariater GIS og ITS ISO/TC 211 AGW11 2085-03-02: Internasjonale sekretariater GIS og ITS - /CEN/TC 278/WG 17 og ISO/TC 278 2087-13-01: SNK 624 Digital produkt pass - DPP 2018-05-01 : SNK 253 Vibrasjoner og bygningsskader 2018-10-01 : SNK xxx Støy fra veitrafikk 2025-01-01 : konstruksjonteknisk - Stål og Aluminium - CEN/TC 135 2025-10-02 : Konstruksjonteknisk - Stål og Aluminium - CEN/TC250/C5 2029-01-01 - SNK 068 - SNK 068 Aluminium konstruksjoner. EN 1999, EN 1090-3, 2055-03-01 - SNK 536 Asset management - (ISO/TC 251 Asset management)	Akanes, Jostein Anastasio, Sara Antonsen, Roy Atzi, Kamaron Bathen, Lise Benzenberg, Peder Berg, Morten Angel Bjørntomt, Øyvind Boko, Kjersti Leiren Bogdashova, Natalia Boulund, Andrea Elisabeth Brustad-Hermannn, Kai Rune Brennes, Vilhelm Dalen-Rasmussen Elin Degago, Samson Darun, Camo Ekedal, Thor Gunnar Fernando, Roshan Jayarajah Fide Hope, Marian Fiske, Thomas Knudt Fjelstad, Per Harald Gisselsø, Giselle Fredriksen, Martin Andreas Gryczka, Grzegorz Grytselvåg, Dagfin Gussås, Åse Hansen Radnum, Marius Hølgaestad, Sig Henning Holtberget, Simen Hellreien Holvik, Robin Birkelund Hunstad, Roar Hovland, Trond Jakobsen, Vegard Kahlan, Håkon Johannes, Hilde Jørgensen, Arne Jørgensen, Torbjørn Knudsen, Kaare Marius Knudsen, Tina Lissanm, Henrik Lothe, Hermann Madsen, Preben Rene Magnussen, Odd Anders Marklund, Gabriel Mathiesen, Tommy Melby, Ivan Helzenn Middttun, Kjersti Mikaelsen, John Moltmann, Tonum Mundal, Stein-Helge Myhre, Evn Myhre, Øystein Nønstad, Bjård Nordang Bye, Frode Nouri, El Hajd Olsen, Fredrik Ost, Froude Odumsloshavn, Southinhant	2018-01-01: SNK 001 Akutikal 2018-03-01: SNK 002 Vibrasjoner og støt - ISQ/TC 108 2020-06-01: SNK 518 Klassifikasjonssystem BAE - Nasjonalt 2020-10-01 : SNK 257 BIM standardisering 2020-15-01 : SNK 380 - BIM Objekter for Byggverk 2021-02-01: SNK 249 Lys og belysning Information documentation Information Modeling (BIM) - Digital Byggeprosess Digital Byggeprosess I Digital Byggeprosess GIS-BIM Infrastructure - Digital Byggeprosess Civil engineering works civil engineering works Stål og Aluminium - CEN/TC250/SC9 Stall or Aluminium - CEN/TC250/SC9/WG1_ Update 1999 Action from waves and currents on coastal structures low loads Climate action Atmospheric icing 990 Basis of structural and geotechnical design Sediments, Truls Rørhaug Trondsen, Jacob Tre - CEN TC250/C5/WG6 Eurocode treburer Tre - CEN TC250/C5 - NS Eurocode general re - Oppfølging av CEN/TC250/WG2 Existing structures - Oppfølging av CEN/TC250/WG4 reinforced polymers krusjoner er et stem på kjorskonstruksjoner et struk på kryssoverlaster NS-EN 1998 betongering - CEN (TC 250/C5 7)
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- 100+ experts develop and maintain NPRA's standards, instructions and sector guidelines

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Four focus areas identified so far

1. Regulation and the EU

- Adaptation to EU legislation
- Links between regulation and standards (1025/2012)

2. Data-driven authorities

- BIM-GIS-ITS
- Electronic traffic regulation (METR)

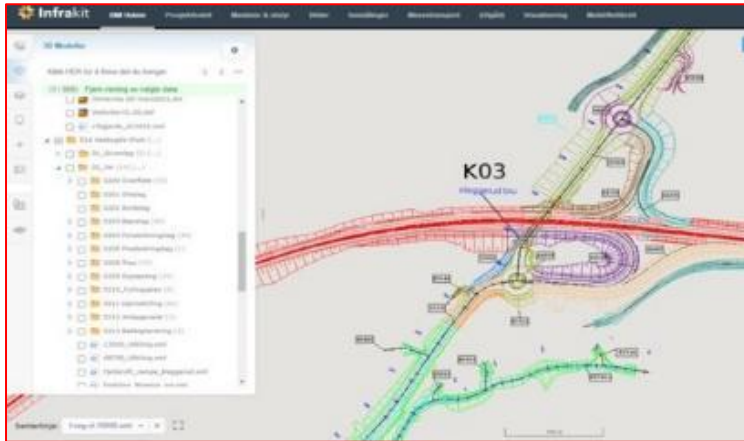
3. Sector development

- Building and procurement standards
- Manuals, instructions and guidelines

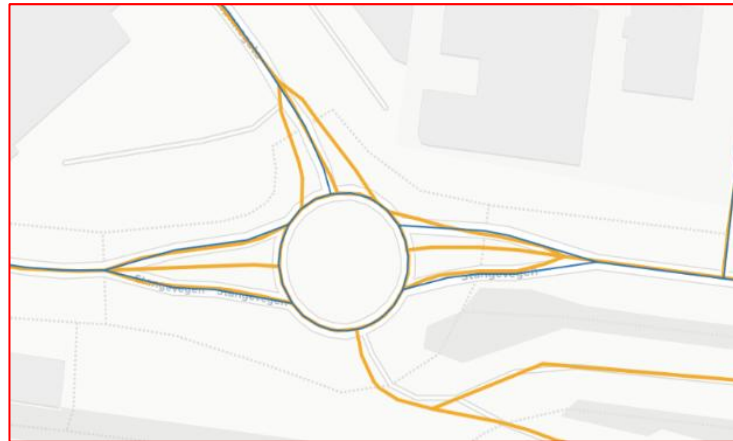
4. Safety and preparedness

- Climate adaptation of infrastructure
- Incident management

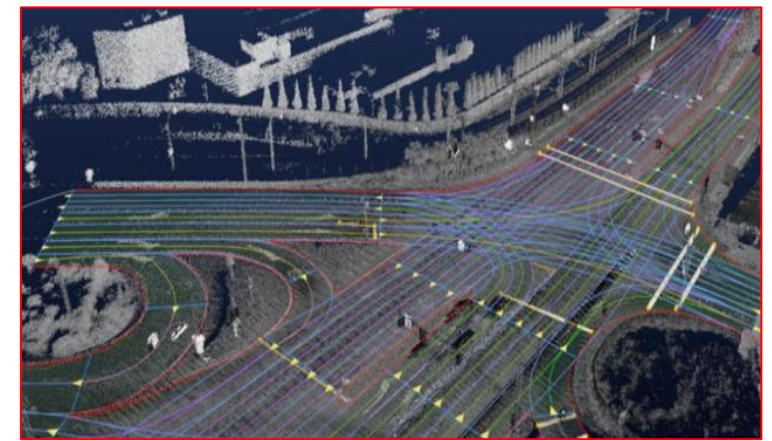
BIM-GIS-ITS: data flow across three domains



BIM: ISO TC 59/SC 13



GIS: ISO TC 211

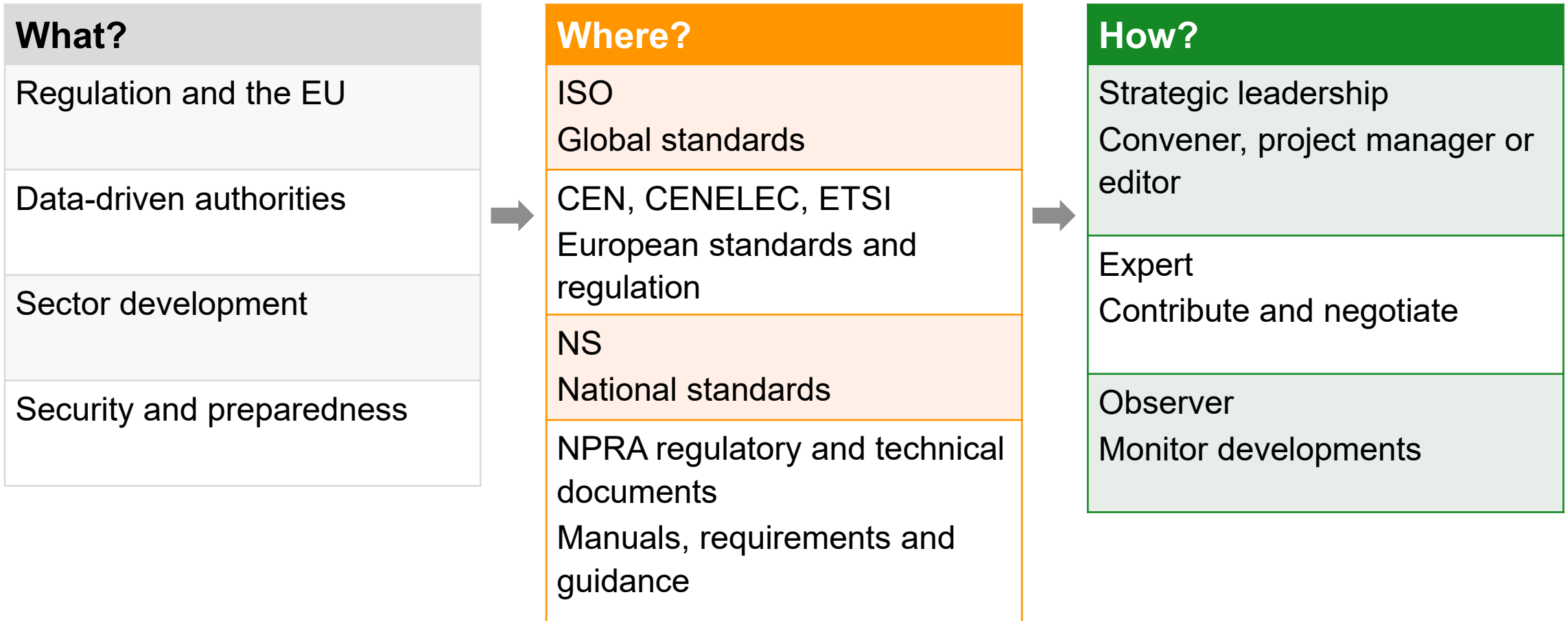


ITS: ISO TC 204

Joint Working Group 14
BIM-GIS

Joint Working Group 11
GIS-ITS

The method: what, where and how we engage

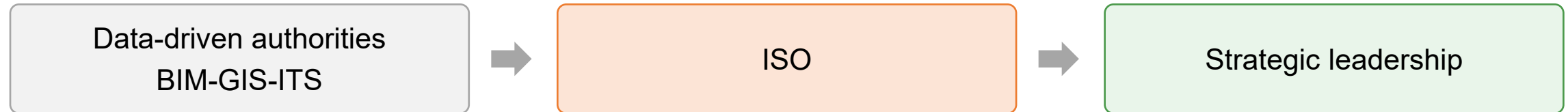


Two examples of strategic choices

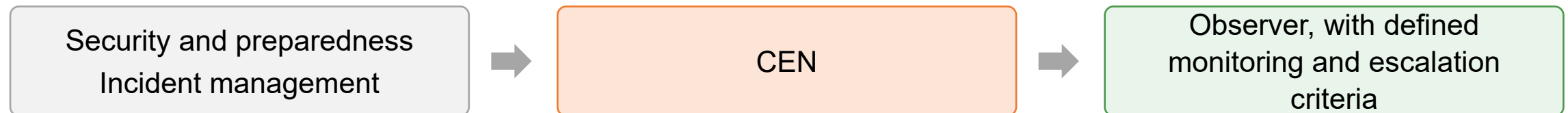
What?

Where?

How?

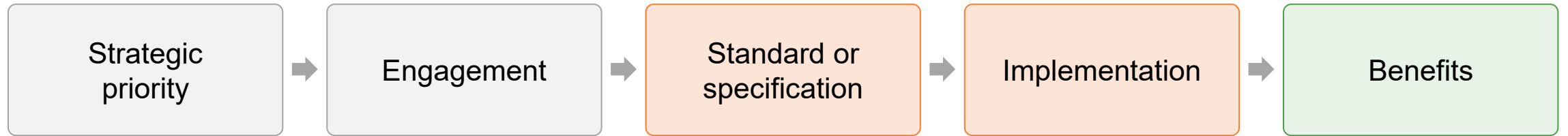


Lead the international work to influence standards that affect our digital value chain.



Monitor and report on developments when awareness meets our current needs.

The value of strategic standardisation



Expected benefits

- Better regulation
- More efficient procurement
- Safer and more resilient infrastructure
- Interoperable data and systems

Progress so far and next steps

In place

- Overview of committees and participation
- A foundation for the strategy
- Focus areas and key challenges
- A method for choosing our engagement

Next steps

- Discuss priorities with leaders and experts
- Refine the strategy and secure commitment
- Develop an action plan



Thank you

Prepared by Marius Raddum, Trond Hovland and Marit Brandtsegg