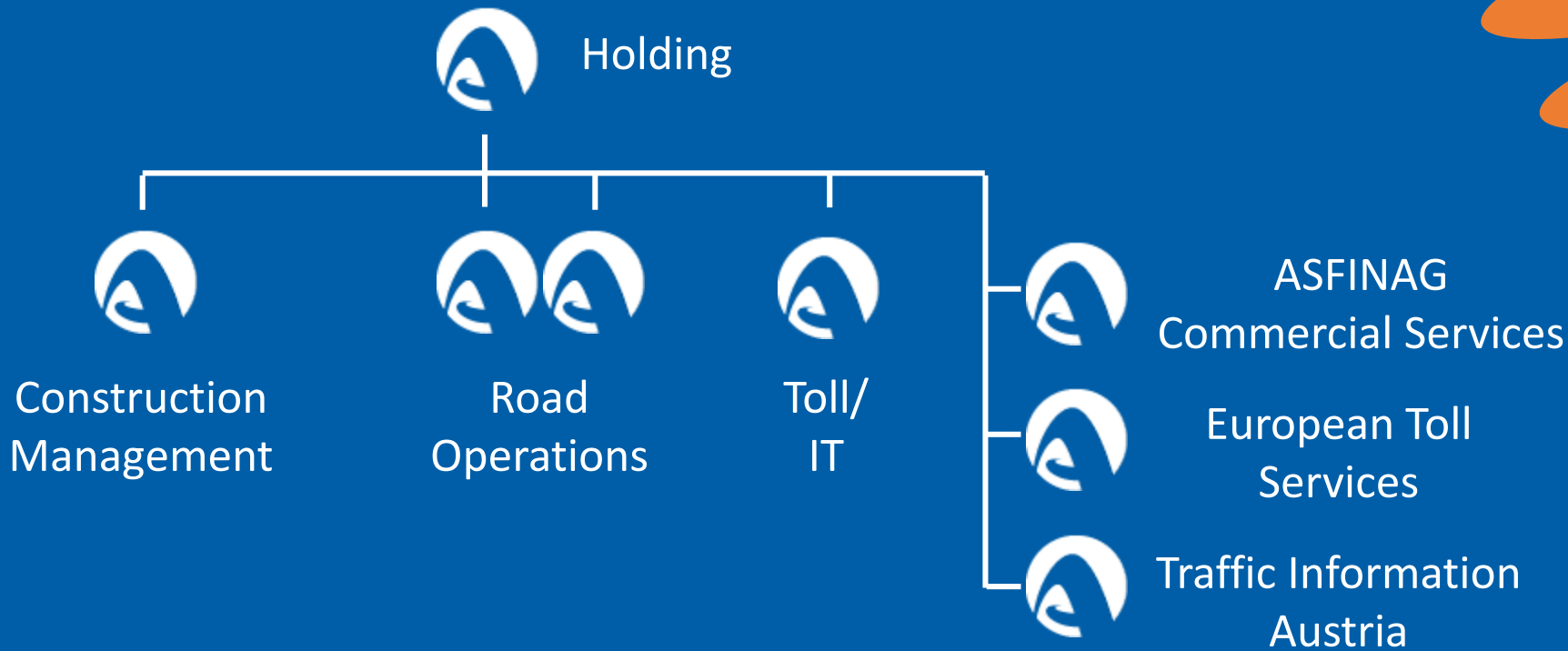




Free Play of Innovative Forces or Systematic Restructuring-

The perspective of the road operator ASFINAG

ASFINAG at a glance



2.785 employees

2.223 km network

30 bn.
vehicle-km/year

purely toll-financed

Individual mobility will change drastically in the future – The details depend on many developments/technologies



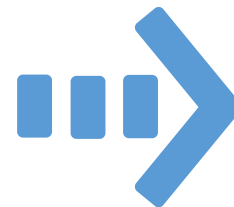
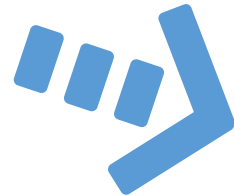
Road infrastructure offers attractive opportunities for digitalization but few of them are quick wins

Topics affecting ASFINAG

- High investments assets
- High operational cost
- Long duration of projects and life cycles

- Regional distribution tasks
- Intense manual labour
- Seasonal/situation dependant

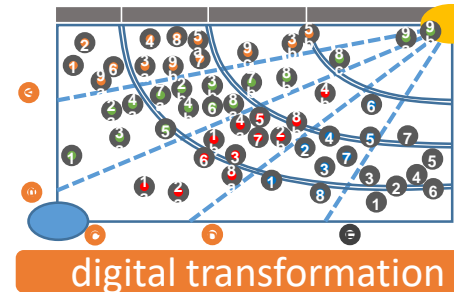
- Increasing traffic & transport environment
- Change in technologies
- Trends in society
- Environmental challenges



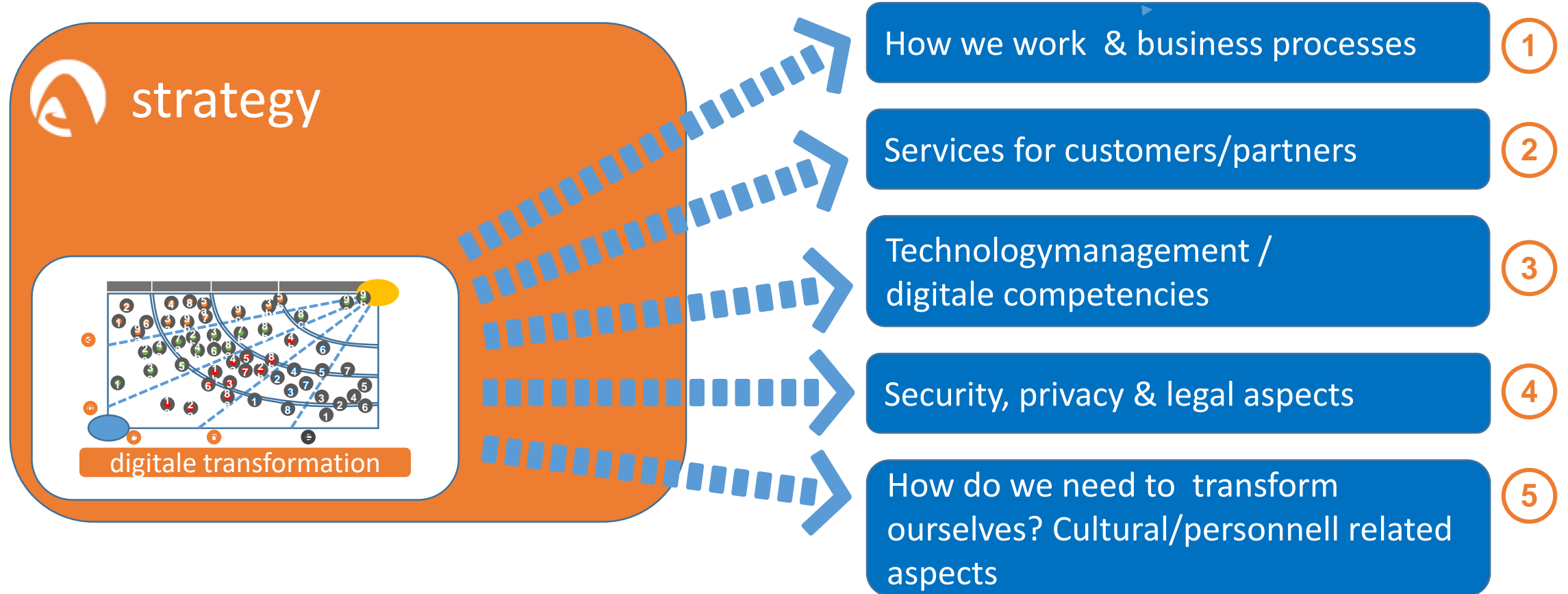
digitalization is a well integrated part of corporate strategy



strategy



Digitalisation in ASFINAG is a stepwise approach – taking into account different perspectives



Strong partnerships and R&D cooperations are essential to face the challenges ahead!

What we bring to the table...



Traffic Surveillance and Control



Incident Management



Traffic Information



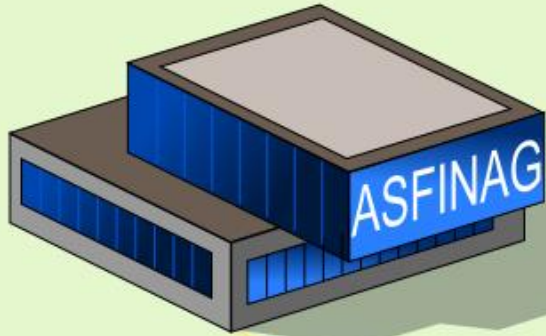
Road Works Information



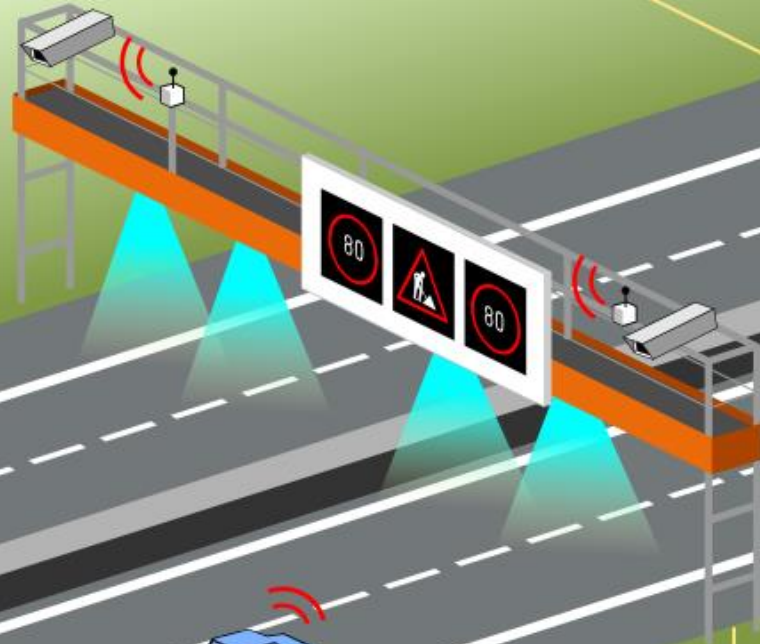
Weather Information



Connected Vehicle Interface



Hightech
Inside...



Video Surveillance
Video Detection



V2X
Cooperative
ITS



Fibreoptic
Network



Intelligent
Trailer



Environment
Data



Traffic management centers control traffic in tunnels and along the highways

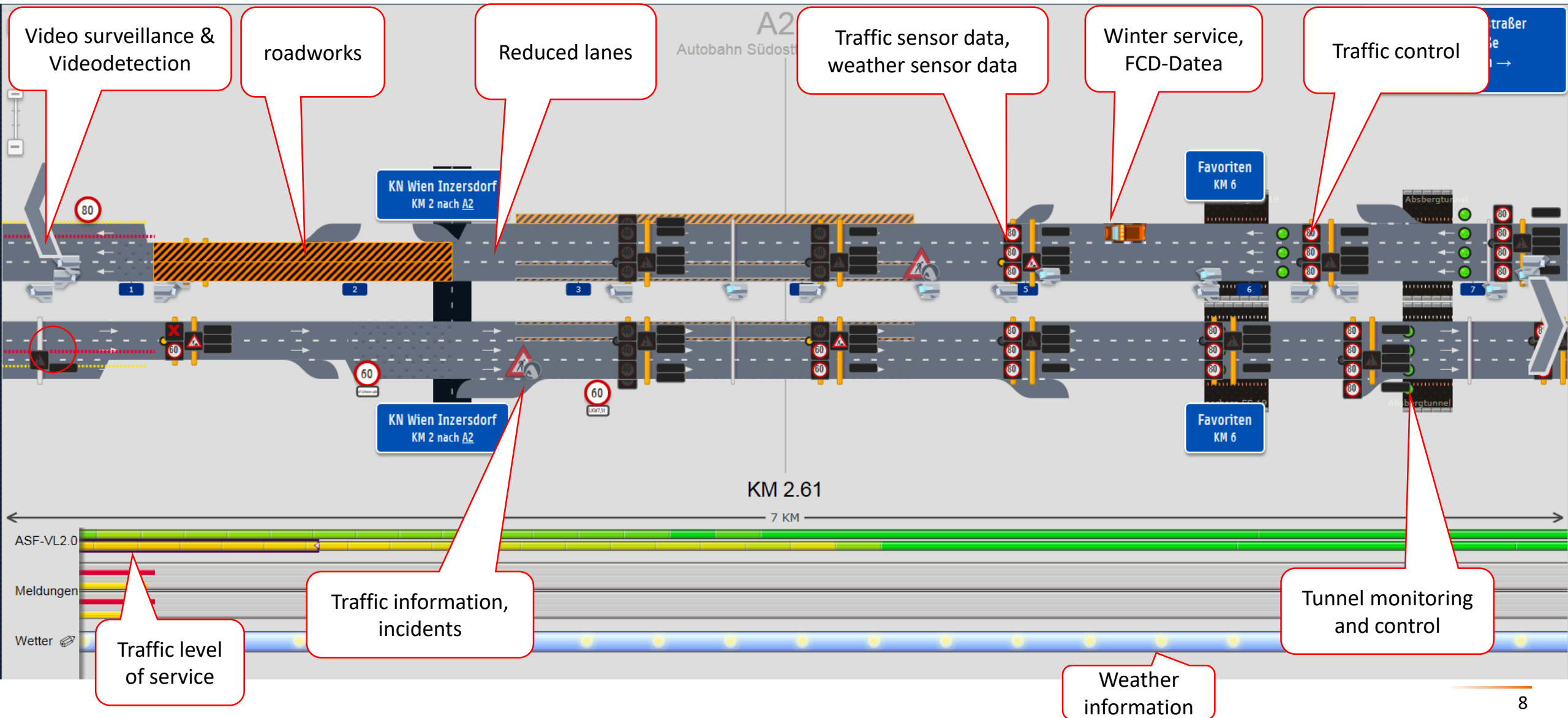
10 traffic control centers

Incident detection

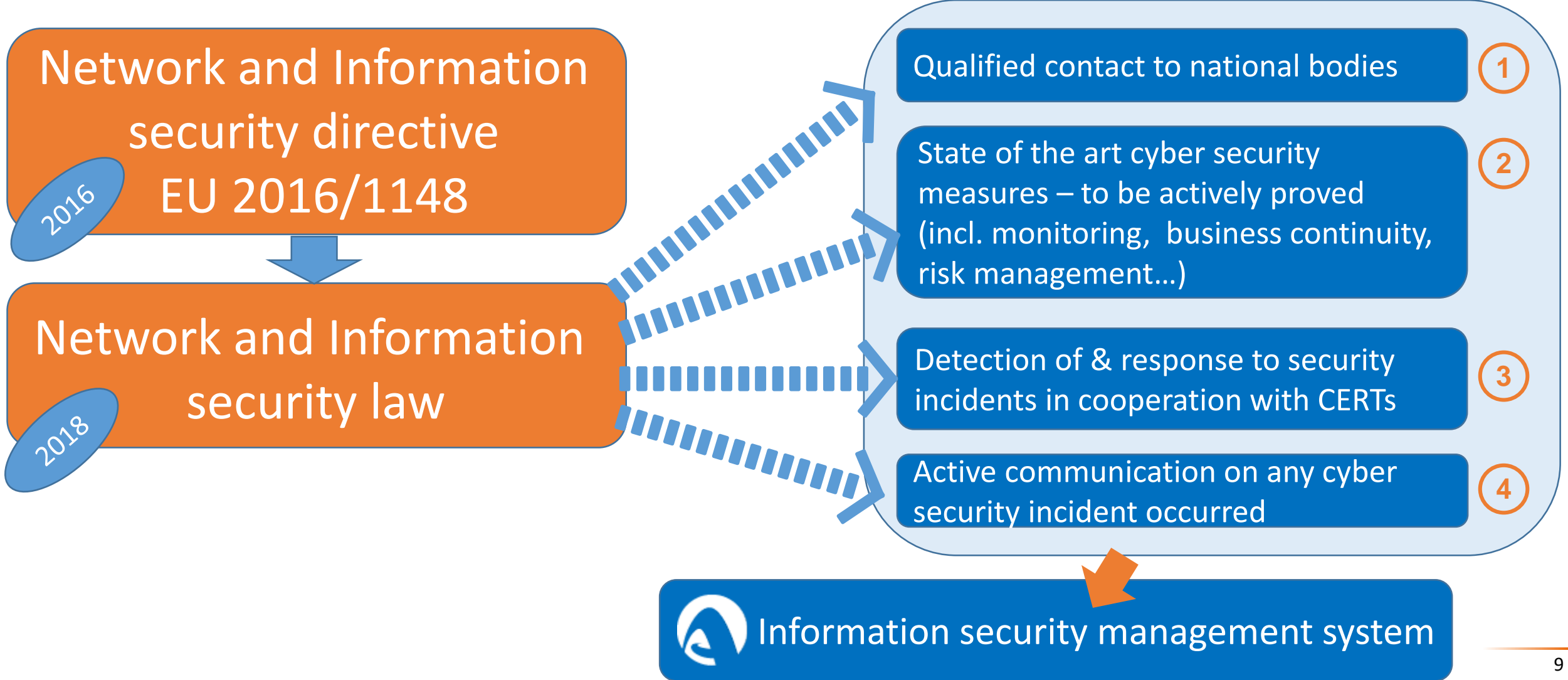
~8500 Cameras

>85% network coverage

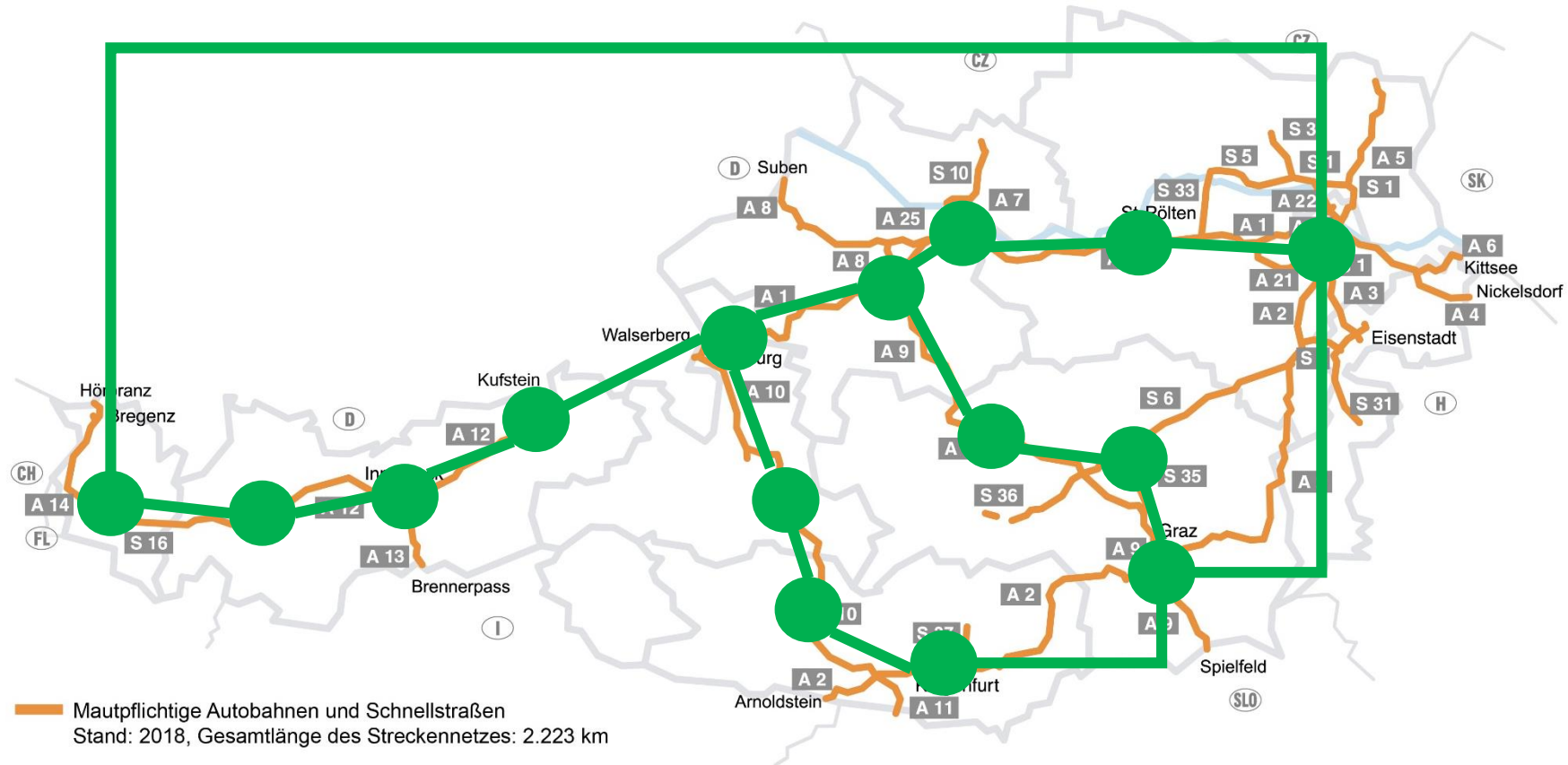
The highway already has a digital twin...



Road operation is regarded as an „essential service“ by the NIS directive – this creates obligations in IT security and continuity



Our redundant data network is the basis for our operations units and our services



~ 150 days


-
- Legend:
- Orange line: Mautpflichtige Autobahnen und Schnellstraßen
 - Blue line: Nicht-mautpflichtige Straßen
- Stand: 2018, Gesamtlänge des Streckennetzes: 2.223 km

Conclusion

- 1 Infrastructure is a longterm business – change needs inspiration, planning and patience
- 2 Digitalization is a stepwise approach and needs good R&D programs and partnerships
- 3 No room for bad availability – many people depend on the infrastructure
- 4 Security and risk management are mandatory – disruptive changes are rare
- 5 Not only the technology has to be transformed. We also have to evolve!



Join us at ASFINAG!

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