

**Electrical Safety
programme...**

*... a way to influence human
behaviour for safer working methods*



TRAFIKVERKET

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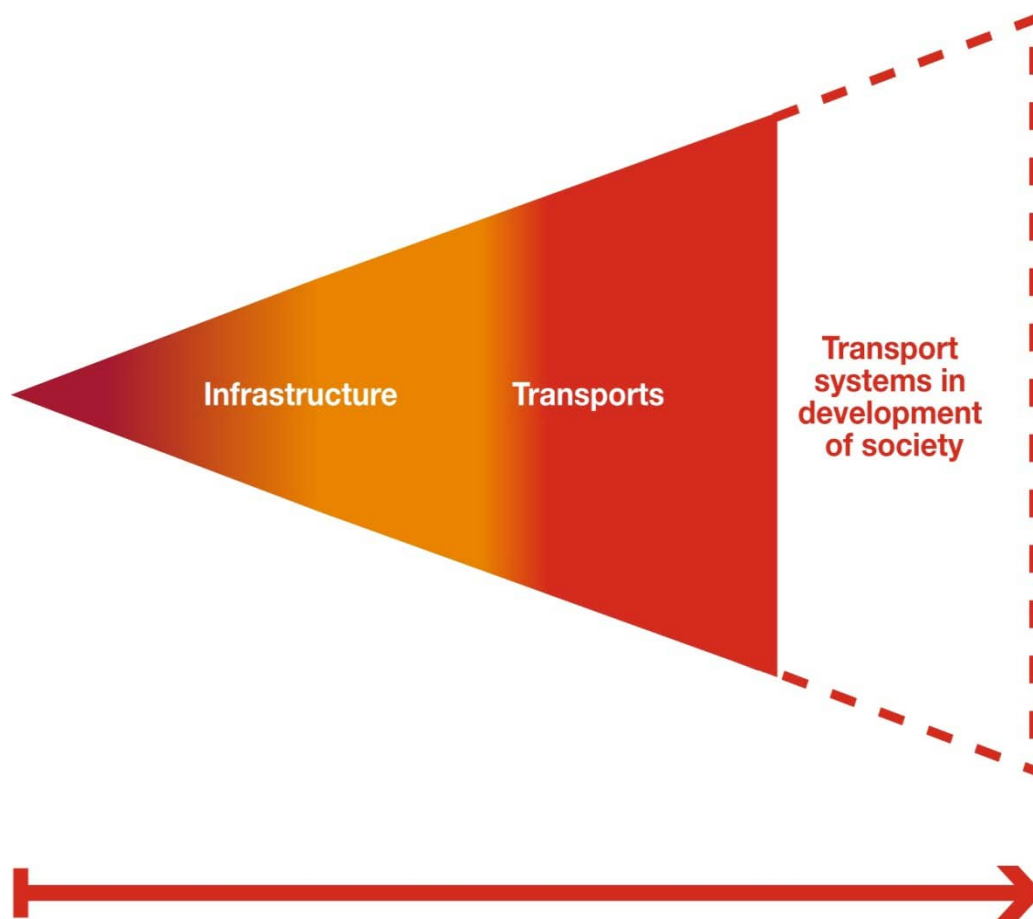
- Sweden is the third largest country in western Europe
- 9 million inhabitants
- 450,000 km² (174 000 sq mi)
- 23 inhabitants/km²
- 85 percent in cities
- 38 percent in major cities



The Swedish Transport Administration

- Responsible for long-term planning regarding road, rail, maritime and air traffic
- Infrastructure manager for rail and road
 - The railway net consists of 12 000 km, 90 percent is electrified
 - The first railroad opened 1856
 - Electrified tracks, 9453 km
 - Electrical control rooms, 8
 - Converter stations, 47
 - Powerlines 130 kV 16 2/3 Hz, 1900 km

A wider perspective

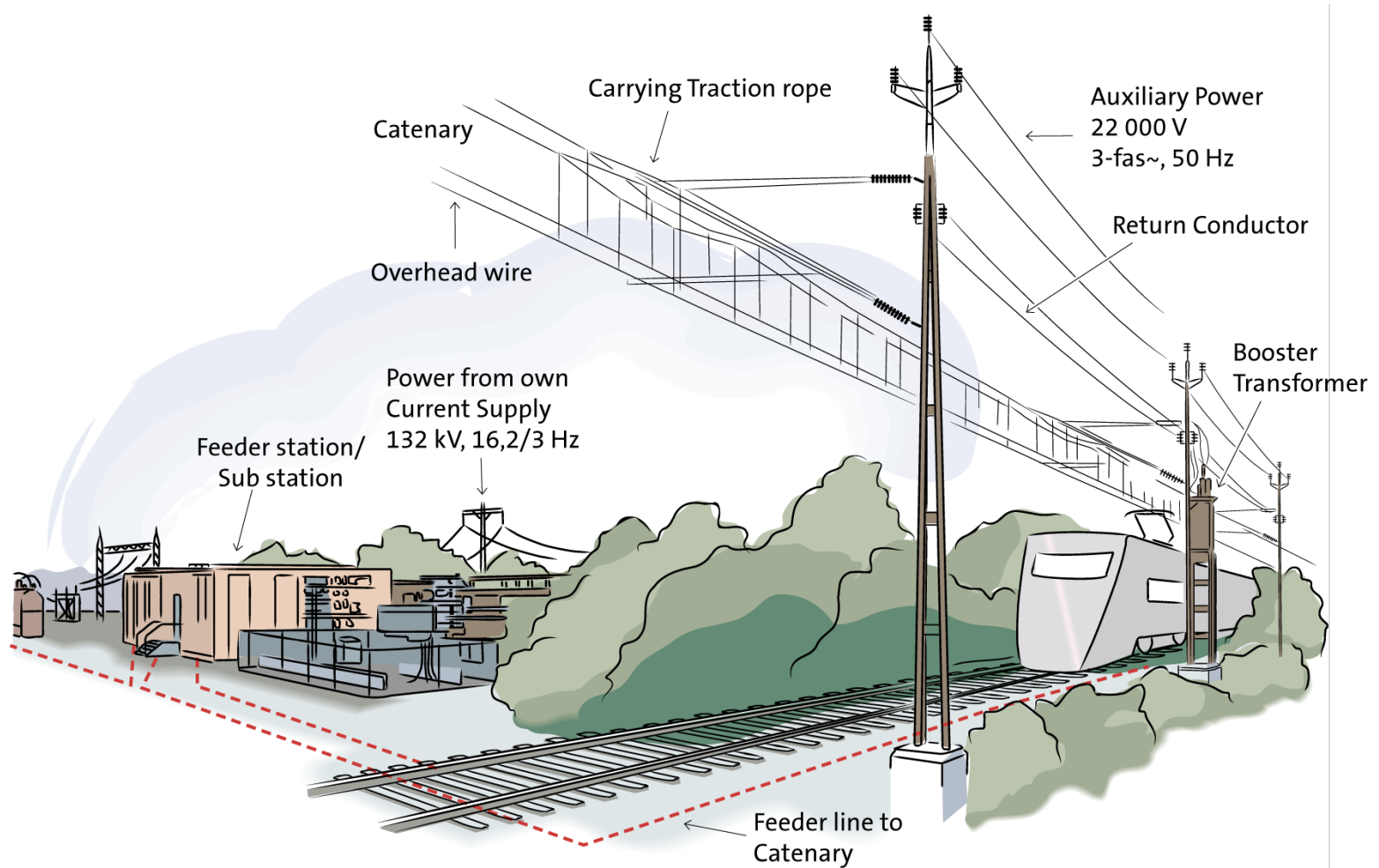


External Regulations and Internal Rules

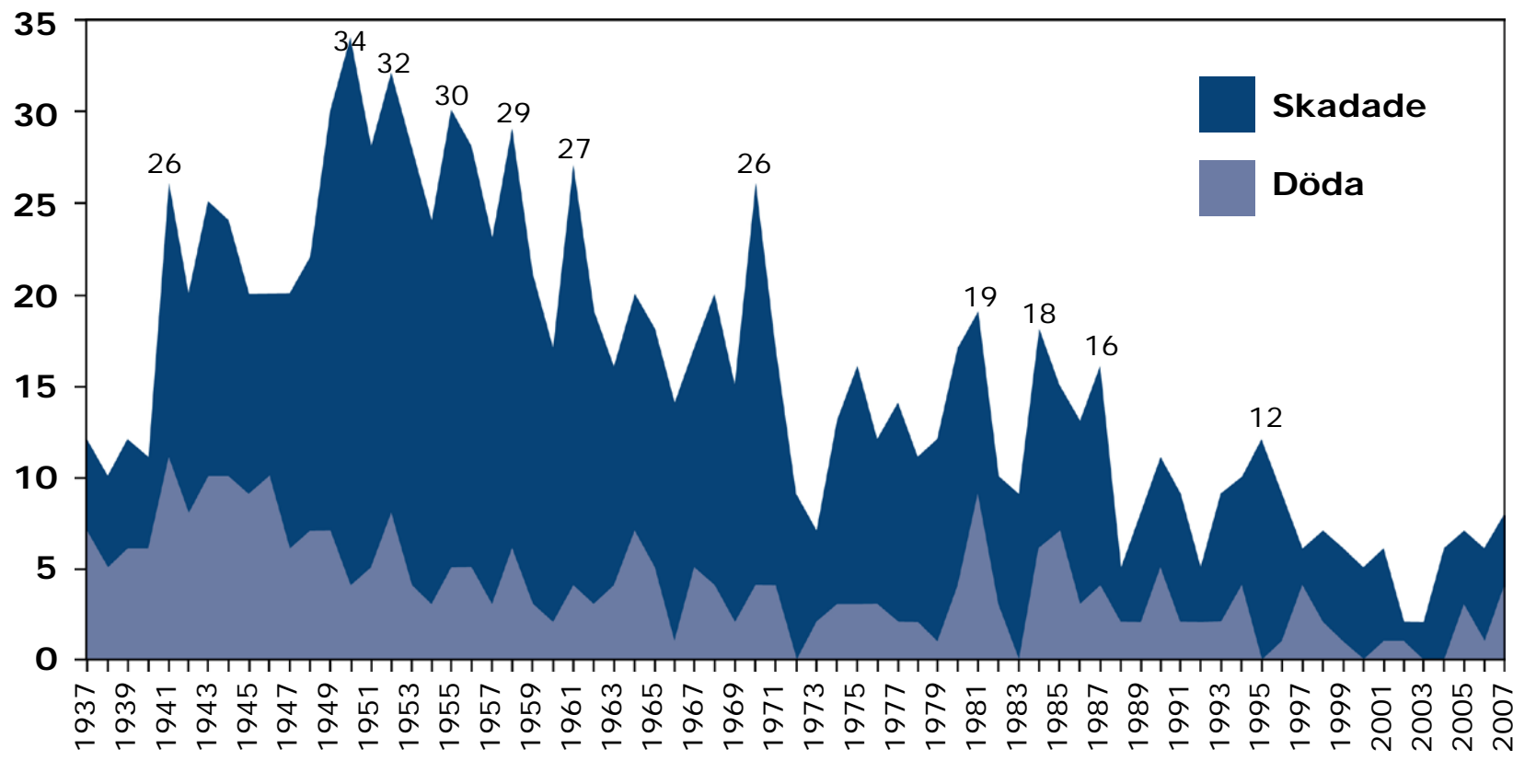
- Several governing documents
 - External Regulations
 - Strict responsibility of the installation
 - Internal Rules
 - Regulates working methods
 - How the installations can be accessed and maintained



Electrical installations in Sweden



Dead and injured in electrical accidents 1937-2007



Identified areas of problems

- Rules and regulations
- Organization
- Attitudes/ safety related communication
- Installation



Fundamental values

- Human behavior – an opportunity to do the right thing
- Simplify the process according to MMI
- A risk-taking behaviour should never be rewarded
- A balance between demands in rules and available resources



First step

- Documentation overhaul
- Adapt documentation
- Create management
- Educate and inform



Thank you

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