# **STRC 202** Hauke Fehlberg, FEDRO

## Federal Roads Office Tasks

Specialized Swiss authority for road infrastructure and individual road traffic

Part of the Federal Department of the Environment, Transport, Energy and Communications (DETEC)

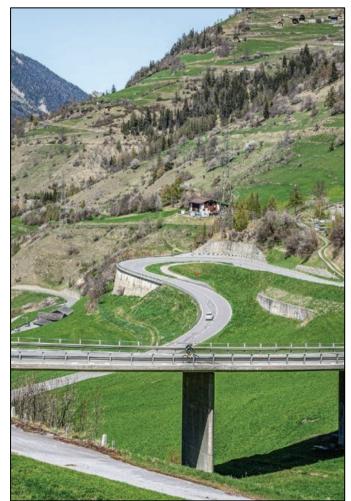


## Federal Roads Office Tasks

General Task: ensuring sustainable and safe mobility on roads.

Now: Preparing Switzerland for automated driving.

Central tasks at the federal level, implementation also in the cantons



# Legal Basis for automated driving

International agreements and standards play a paramount role in automated driving.

Regulation of this technology application must be in accordance with existing Swiss laws and social acceptance.



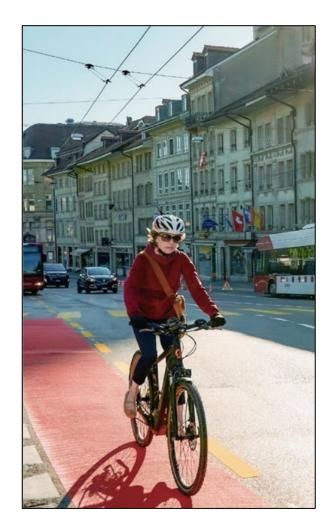
# Legal Basis for automated driving

- FEDRO has been dealing with automated driving and its likely effects for years.
- It has facilitated pilot tests with shuttle services for passenger transport and has initiated and funded a large number of applied research projects.



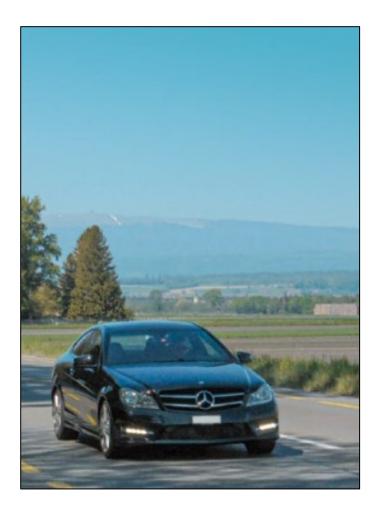
#### Swiss Road Traffic Act (Amendment) 1 Parliament decision of March 17, 2023

- Federal Council (FC) regulates conditions and to what extend the driver is released from his duties (-> ordinance).
- Valet parking by automation systems may be allowed by FC.
- AV driving on specified routes only with supervision by operator.



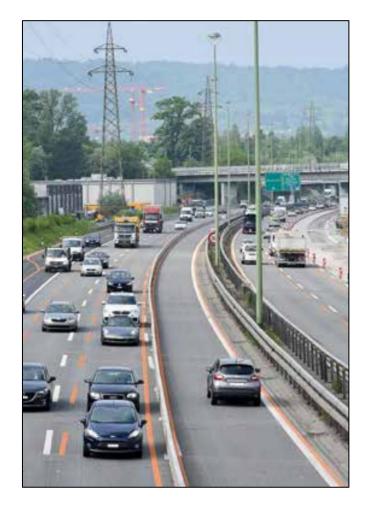
#### Swiss Road Traffic Act (Amendment) 2 Parliament decision of March 17, 2023

- Licensing procedure determined by FC, determination of routes by cantons, for motorways by FEDRO
- Small and slow vehicles (e.g. delivery vehicles) may be authorized without specifying certain routes.



#### Swiss Road Traffic Act (Amendment) 3 Parliament decision of March 17, 2023

- FC shall ensure that
  - road safety of all road users is not impaired,
  - that traffic regulations can be observed and
  - that automation systems can process data only where their accuracy and integrity are guaranteed.
- AV must have a driving mode recorder which is protected against unauthorized access and cannot be deactivated.



#### Swiss Road Traffic Act (Amendment) 4 Parliament decision of March 17, 2023

- FC specifies data to be recorded in accordance with intl. law. Conditions for access to these data is decribed in detail.
- FEDRO may authorize temporary trials with AV even without specifying certain routes or obeying applicable regulations.



#### Topics to be researched by FEDRO WG Mobility 4.0



Automated Driving in Switzerland • Legal Basis

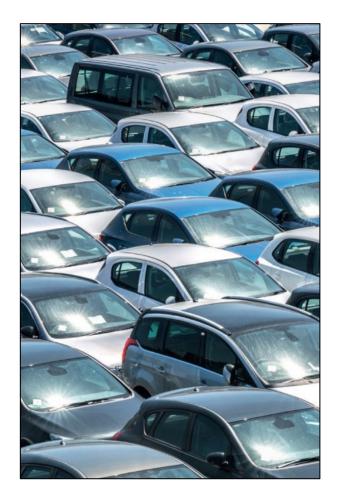
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#### FEDRO Research Programme 2024 – 2028 Smart Mobility – Preliminary topics 1

- Simulations and analyses of the effects of
  - o new forms of mobility,
  - business models of new (digital) transport services
  - Swiss societal developments

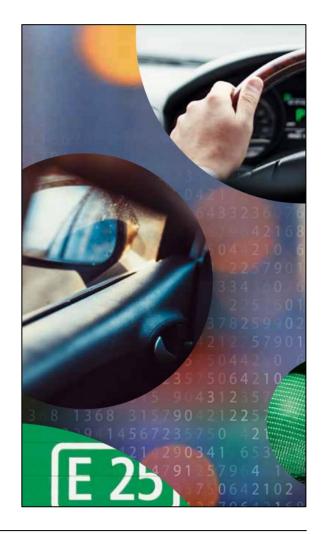
on road transport and the mobility system

 Management of highly automated driving in mixed traffic



#### FEDRO Research Programme 2024 – 2028 Smart Mobility – Preliminary topics 2

- Ensuring compliance with traffic regulations by highly automated vehicles (authorities' share)
- Systematic identification of potential threats to (transport) security in new forms of mobility and / or business models
- Approaches to strengthening the resilience of the mobility system



# <u>www.astra.admin.ch</u> (in German)

Bundesamt für Strassen (ASTRA) > Themen > Intelligente Mobilität

