

The main purpose of STEP-NS 2018 is to address existing and forecast highway capacity deficits that threaten or could threaten the functional integrity of the federal highway network. Numerous locations in the network already face various degrees of overload. Given the anticipated, across-the-board increases in traffic volume, the capacity deficits can be expected to worsen significantly by 2040 if left unaddressed. It

Swiss Federal Roads Office (FEDRO)

Period 2016 - 2017

Project Country Switzerland

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| Number of projects | 38 |
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Total roadway deficit by 2040

More than 300 km

Total investment More than CHF 20 billion

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is therefore essential to ascertain existing and prospective capacity deficits and to remedy these in the context of targeted development projects.

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Development projects to eliminate capacity deficits

We compiled a list of projects that would effectively eliminate all of the roadway capacity deficits that currently exist or that can be expected to emerge by the year 2040 and also estimated their costs. In addition to lane widening and road network extensions, we also examined bypass projects conceived to eliminate capacity deficits. Altogether, nearly 40 individual projects were examined for possible inclusion in the program for 2018.

Project evaluation and prioritization

The large number of capacity deficits and prospective expansion projects made it necessary to prioritize the projects according to their impact and urgency. We used the Uniform Assessment Method for Federal Highways (EBeN), a method developed by FEDRO, to carry out a cost-benefit analysis for each project. This method includes numerous indicators to represent all areas of sustainability. We then used this and other considerations to assign the projects to the various development steps outlined in STEP-NS 2018 and to draft a program dispatch for the Swiss Federal Council and Swiss Parliament.

Providing support to the FEDRO

As the prime contractor of the WEN project team, we carried out capacity-deficit analyses and project evaluations together with Ecoplan and Transitec so as to provide a sound basis for decision making within STEP-NS 2018.