

Call for proposals

Swiss Post / PostBus / MobilityLab / e-Sandbox Sion



mobility lab
sion valais

Call for proposals

PostBus Switzerland, in partnership with the city of Sion, plans to fully electrify Sion's urban bus fleet by the end of 2024. Over 20 electric buses will be put into service, providing an eco-friendly alternative for passenger transport. In this context, the MobilityLab Sion seizes the opportunity of this real-life laboratory and launches a call for projects.

This call for projects is open to Universities, higher education institutions, startups and companies wishing to develop and test solutions in a practical setting. Your ideas and innovations can help shape the future of public transport in Switzerland!

An interdisciplinary jury will review the received project description, select the most relevant ones and work with the selected teams to find suitable implementation solutions.



SCOPE

The areas of interest include, but are not limited to:

- Electric fleet management systems
- Bus depot infrastructure
- User adoption
- Cybersecurity
- Integration with the power grid and traceability
- Simulations with the aim of scaling them up to all Switzerland
- Impact assessments (acoustic, ride quality, schedule adherence, etc.)

Projects will be selected based on their potential impact, learning, funding model and replicability.



THE APPLICATION PROCESS

Timetable and deadlines (indicative):

Call opening: 30 November 2023

Deadline for submission: 29 February 2024

Evaluation and information on evaluation results: March 2024

Start project: From June 2024

The project description must:

- Include information on the context, positioning, and objective(s) of the proposal, project organization and implementation, funding model as well as project impact.
- Be no longer than 4 pages
- Be in PDF format
- Be submitted by email: innovation@post.ch

Proposals submitted in response to this call will be treated confidentially.



CONTACTS

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TECHNICAL BACKGROUND

Infrastructure Details:

- Current power available on site: 1000A
- Projected: 1300A
- MV/LV transformer: installed
- Photovoltaic system capacity: current – 170 kWp, Projected – 326 kWp
- Charging station: projected – 20 charging points for about over 1200 kW charging power
- Charging station manufacturer: will be chosen by PostBus

Vehicles:

- Models: 11 x Mercedes eCitaro Solo 12m, 9 x Mercedes eCitaro G articulated 18m
- Battery capacity: G - 280 kWh, Solo - 350 kWh
- Operating reserve: 20% remaining charge at the end of the day
- Charging standard: DC-charging 0-150kW, CCS2, protocol - plug and charge ISO 15118

Operating:

- Operating data for 2025: available upon request
- Charge management: potential for an intelligent management system infrastructure available for other uses outside of bus operation hours
- Local storage: evaluation of potential solar installation

Commitments:

Operation without interruption.

The MobilityLab Sion-Valais aims to conceive, develop, and test innovative mobility solutions. Collaborating in this unique platform in Switzerland are Swiss Post and its subsidiary PostBus, EPFL (the Swiss Federal Institute of Technology in Lausanne), HES-SO Valais-Wallis (the University of Applied Sciences and Arts Western Switzerland Valais), the Canton of Valais and the City of Sion.