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FASST-CH Future Aviation Surveillance Services and Technologies

Santiago Llucià 19.11.2025



The Challenge



Create a roadmap that enable all airspace users to be electronically visible to all other airspace users.



Assess complementary solutions to the transponder mandate that are implementable by 2027.

Why FASST-CH?

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SUST

Recommendations for mandated conspicuity in class E

DIGITALISED AIRSPACE

- S-I-1 Targeted development of airspace
- S-I-3 Dynamic management of airspace
- S-I-4 Access to the airspace using equipment

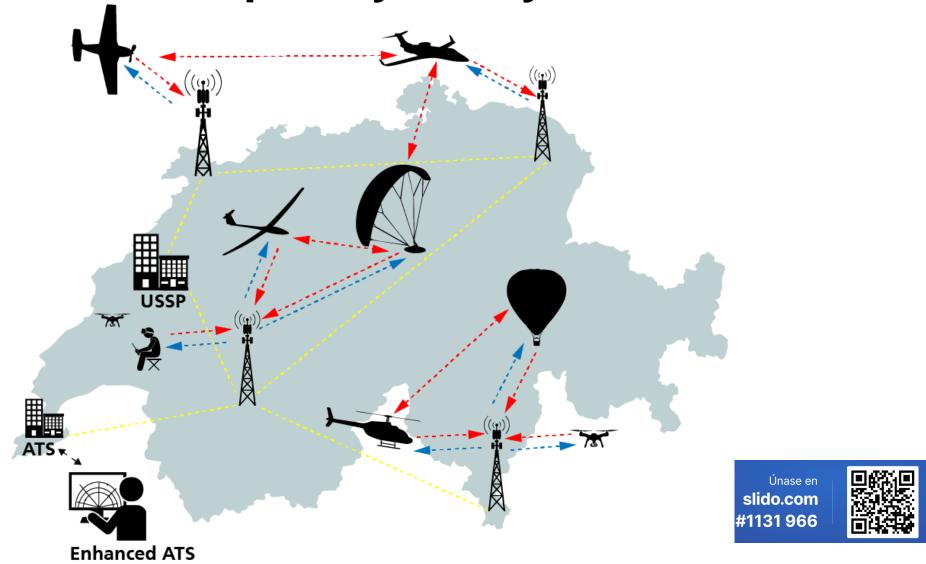
UNMANNED AIRCRAFT

Integration of BVLOS unmanned aircraft operations

GA COMMUNITY

- Access to airspace with limited restrictions
- Foster development of enhanced cockpit capabilities

FASST-CH i-conspicuity ecosystem



An interoperable ecosystem

Airborne conspicuity

Transponder with ADS-B Out

ADS-L Out over SRD860

ADS-L Out 4Mobile

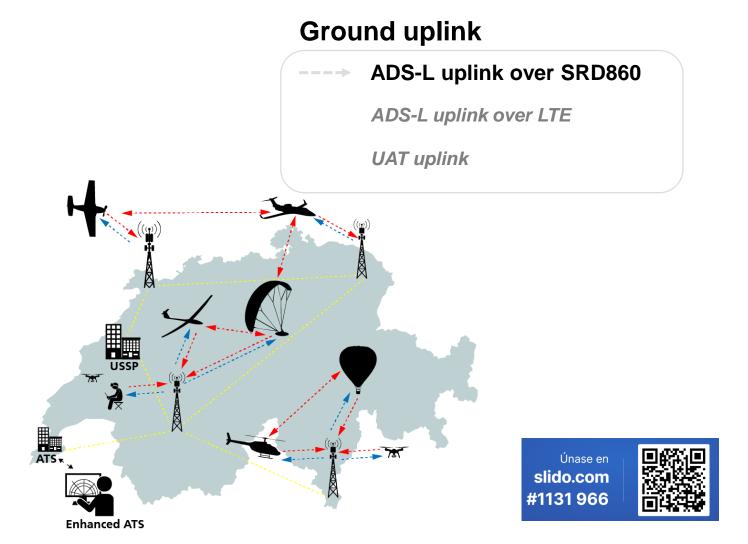
ADS-B low-power standalone

ADS-B In

ADS-L In over SRD860

ADS-L In over LTE

UAT In





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The FASST-CH Project Milestones today...

Since Jan 2025

LEGAL BASIS

Revision of the "Verordnung über die Verkehrsregeln für Luftfahrzeuge» VRV-L for Electronic Conspicuity during Flights under Visual Flight Rules





Since the end of 2024

JOINT VISION

Harmonised approach with other EU authorities, EASA, OFCOM, industry, representatives of Swiss aviation, Skyguide, Air Force, MAA



From Jan 2026

VALIDATION i-conspicuity TECHNOLOGIES

The use cases currently being developed in collaboration with the associations will be tested using various technologies.





Since May 2025

TECHNOLOGY RECOMMENDATION

Pilots are encouraged to equip their aircraft, thereby making an important contribution to i-conspicuity.





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...and in the future

From mid 2028

i-conspicuity MANDATE IN FORCE

The e-conspicuity mandate enters into force.

From 2035

OUR VISION

A fully connected airspace where all users in all airspaces can access traffic, weather, airspace status and... in real time.









From Mid 2027

i-conspicuity MANDATE PUBLISHED

The mandate is published (after consultation); all aircraft in ECHO airspace must be e-conspicuous

In 2028

COMPREHENSIVE TRAFFIC PICTURE

Using existing and new ground infrastructure, a comprehensive traffic picture is available in Switzerland to pilots to increase situational awareness and support integration of drones







An airspace mandate

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Entire class E airspace

Motorised aircraft, gliders, balloons

Exemptions for historical aircraft foreseen

Enforced in the Swiss national regulation

"Verordnung des UVEK über die Verkehrsregeln für Luftfahrzeuge" (Ordinance of the DETEC on traffic regulations for aircraft)



On the right track

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Today

e-conspiculty equippage level is high, interoperability remains the issue

2028+

- e-conspicuity with limited number of protocols (ADS-B, ADS-L)
- interoperability through multi-frequency receivers
- ground infrastructure to improve interoperability and visibility support drone operations and SAR