



# Developing a Prototype of Localisation Assurance Service Provider (LASP)

(an ESA funded itrust/SNT project + FNR-AFR PhD Grant)

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# About itrust consulting services



## Consultancy

- Security policies and technical expert reports
- Information risk analysis (Trick-Light)



## Audit

- Hacking, intrusion test (TRICK-Tester), Computer forensics
- Process certification and data protection
- ISO 27001, ISO 27799, ISO 15408...



SE	VIT	7
CO		6
RE	IMP	4
IN		3
PU	NOR	2
		1

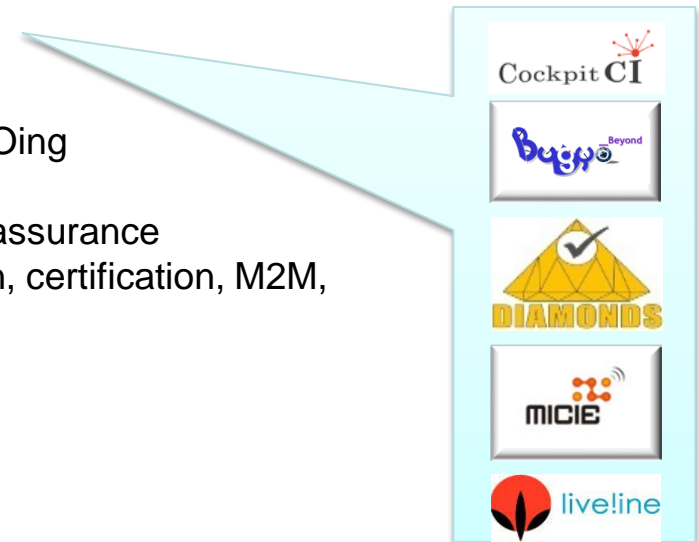


## Training

- ISO 270xx, Security testing, Risk management, Security awareness.

## R&D – Technical and security design

- ESA: Secure Galileo localisation
- Celtic, ITEA2 ; FP7: MICIE, LiveLine, CockpitCI, iGOing
- TRICK light, risk management tool; ISIS, Information sharing tools for risk and security assurance
- LuxLAUNCH innovation studies on LBS, localisation, certification, M2M, carpooling...



## Multisourcing

- Security officer assistance,
- Security as a Service



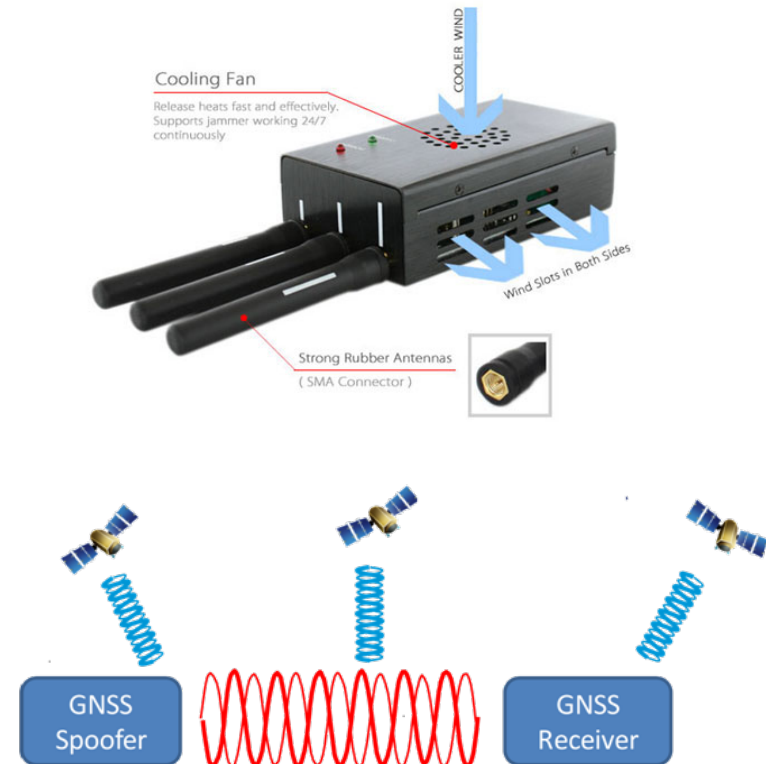
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## FACTS:

- Secure and trustworthy location-based services require **reliable GNSS localisation**;
- Civilian GNSS signals are not authenticated and are exposed to **spoofing attacks**;
- There exist techniques to **detect spoofing**, none of which is prevailing.

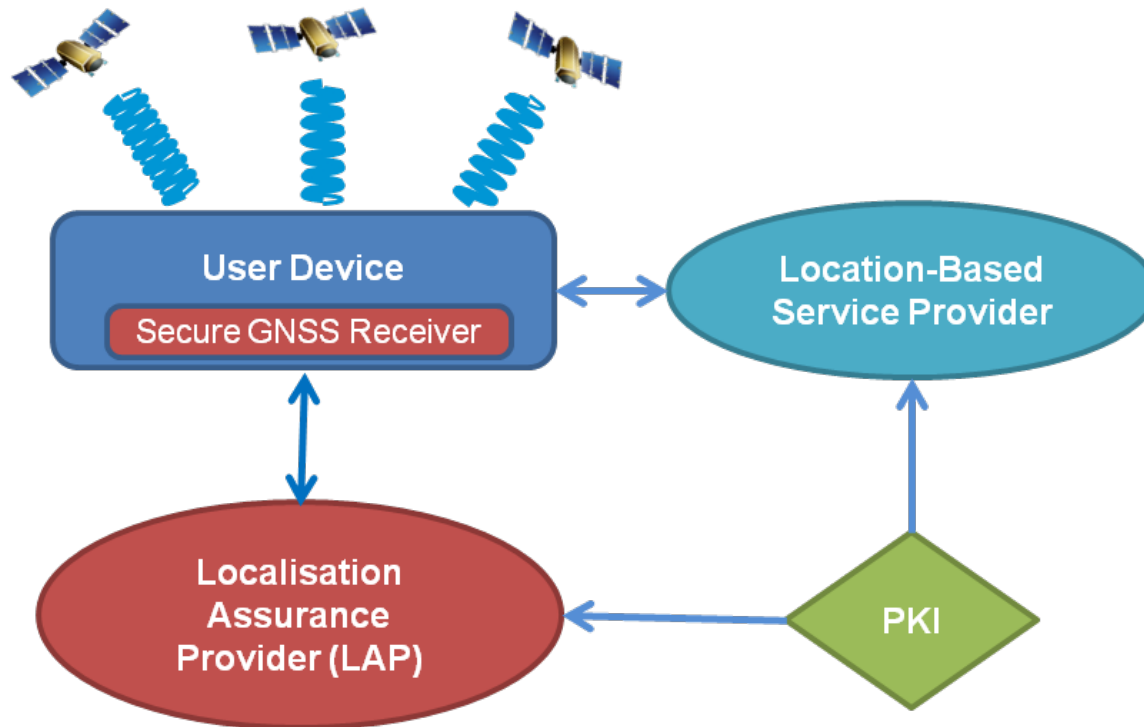
## RESEARCH QUESTION:

- How to ensure localisation integrity for service providers?
- How to protect user privacy?



# Assuring and Certifying Locations

We designed a **Localisation Assurance Provider** that assesses and certifies the extent to which a device's claimed location can be trusted not being spoofed.



We are also studying how to measure and protect privacy according to the EU directives on E-privacy (2002/58/EC) and Data Protection (95/46/EC).

# Conclusion on SnT Partnership

## FACTS:

- Partnership in line with our strategy:  
from pure consulting to mix between security design, support and consulting, and our tactics:  
Maintain high rate of R&D in the next 3 years.
- **Successful project LASP: several publications, operational demonstrator and patent proposal.**
- Active participation to advisory board and research seminars.
- Incentive from UL to our participation to DIAMONDS project on security testing.
- Implication to TRESPASS, FP7 under negotiation, on “*Technology-supported Risk Estimation by Predictive Assessment of Socio-technical Security*”.
- Common interest on Security trainings, Cybersecurity of SCADA, Malware observatory, Security in Space...

