

Vulnerabilities and Global Security of the CNS/ATM systems

- 27th of March 2019
- Brussels - SESAR Headquarters
- 10am – 5pm

Welcome!

Paula López - Innaxis



Founding Members





aims at

ENGAGING!!!

Researchers, students, end users, operators, industrial stakeholders, manufacturers, regulators...

- Facilitate research transfer, involve end users from early stages, define research challenges...

These people...

UNIVERSITY OF
WESTMINSTER



FREQUENTIS



engagektn.com
 twitter.com/EngageKTN



... engaged this people!

Through a large number of activities

Summer schools, PhDs programmes, workshops, SIDs, catalysts funding, and,

Engage Thematic Challenges

At the core of the KTN is the definition of various thematic challenges: new ideas suggested by the research community, not already included within the scope of an existing SESAR project. They are developed along with the ATM concepts roadmap and complementarily with some of the network's PhDs and theses.



4-6 thematic challenges
per year, applied & exploratory,
each with own workshop

Dedicated sessions at SIDs

-16 catalyst funds up to €60k
- (Mostly) migration to higher TRL
- 'Light touch' - 12 months max
- 2 calls: c.OCT 2018 & APR 2020

CNS/ATM vulnerabilities and global security

Thematic challenge

Initial ideas

- CNS/ATM components (e.g., ADS-B, SWIM, datalink, Asterix) vulnerabilities imply a risk.
- Mitigate vulnerabilities, moving towards a cyber-resilient system, fully characterising ATM data, its confidentiality, integrity and availability requirements.
- Better understanding of the safety-security trade-off.
- Security assessments for legacy systems are needed without having to replace and refit.
- Future systems security by design is essential to ensure confidentiality, cyber-resilience, fault tolerance, scalability, efficiency, flexibility and trust among data owners.
- Collaborative, security-related information exchange is essential to all actors in aviation (multi-stakeholder, multi-system, where confidentiality and trust are key).

<https://engagektn.com/thematic-challenges/>

Workshop objectives

- Facilitate discussion. Aviation stakeholders.
- Multidisplinary - transferability
- Create awareness
- Opportunities vs risks of data sharing
- ATM vulnerabilities and mitigation actions
- Security risks assessment - how?



Lunch break

Options available at the info doc

Debate session

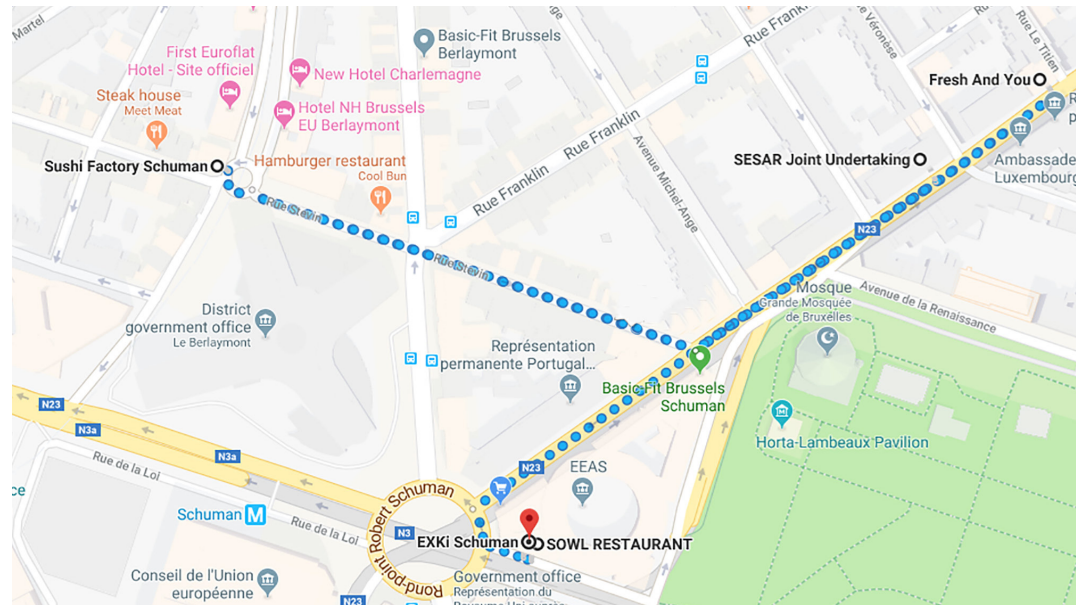
Held on slido.com or App

Event: #EngageKTN

Login, add your ideas and vote

Workshop closing

Finished by 16.45h



engagektn.com/tc1-workshop/



Join and enjoy the discussion!



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