

FREQUENTIS

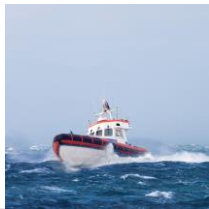
FOR A SAFER WORLD



Potential Smart City Applications

DigitalCity.Wien: Digitale Montagsrunde
Dezemberausgabe 2021

We set standards
in control centres
worldwide



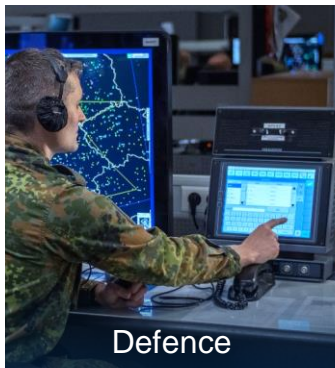
We are the only company focusing solely on safety-critical control centres

Air Traffic Management



Civil

- Air navigation service providers
- Aeronautical data service providers
- Flight information service providers
- Airports
- Unmanned traffic service providers
- Space agencies



Defence

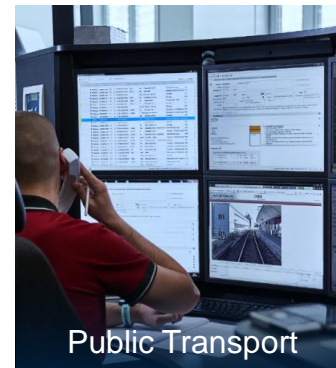
- Air force
- Army
- Navy
- Homeland security
- Joint forces

Public Safety and Transport



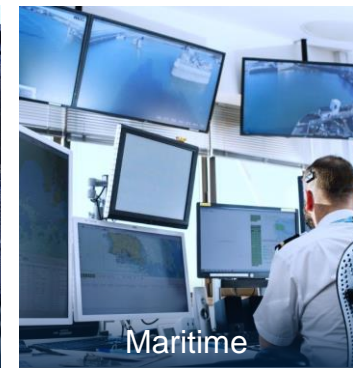
Public Safety

- Police forces
- Fire services
- Emergency and medical services
- Critical infrastructure for industries



Public Transport

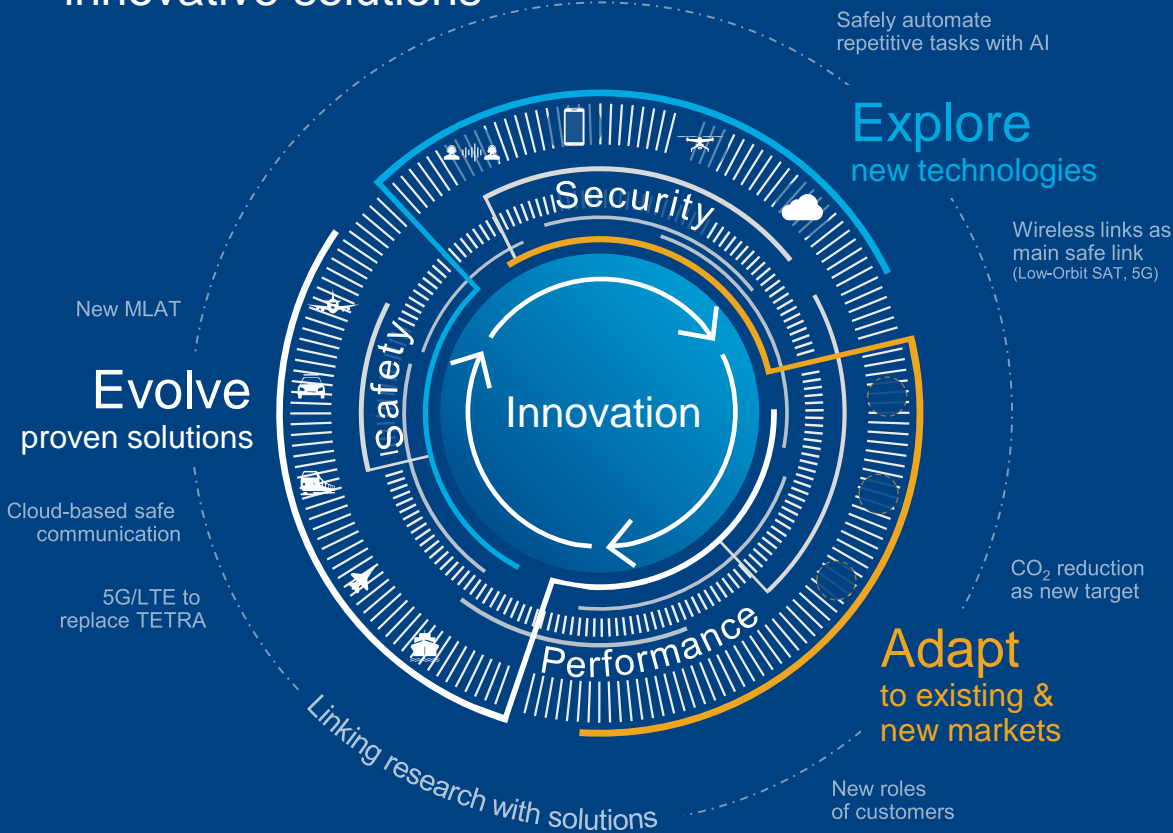
- Heavy rail
- Urban rail



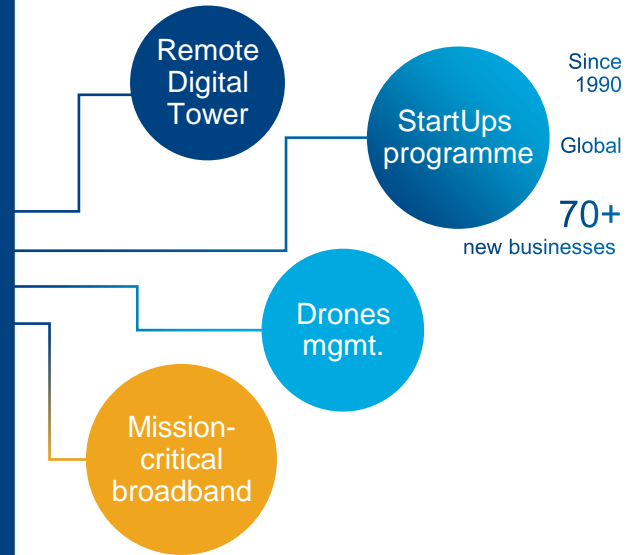
Maritime

- Coast guard / navy
- Offshore
- Port authorities
- Search and rescue

Translating technology trends into innovative solutions



Transforming safety-critical markets



Mission-critical broadband communication

- + Cross-media
- + Cross-national
- + Cross-organisation
- + Proprietary and legacy



Creating a Pan-European broadband mobile system for public protection and disaster relief



Special communication requirements

Extended coverage

Highest reliability

Priorities

Additional security

Small user group

Key challenge | Higher requirements for a smaller user group

Users

Commercial infrastructure



Millions



X-thousands

Coverage



User-driven



Geography-driven

Priorities



Internet neutrality



Priorities can save lives

Reliability & availability



Driven by commercial aspects



Mission-critical availability

Security



Encryption and authentication



+ addition requirements

Data owned by

?



Federal organisations!

Making any broadband network mission critical

Plurality

Access to all relevant data and information to save lives serving different target groups within countries and first responders

Standardised core

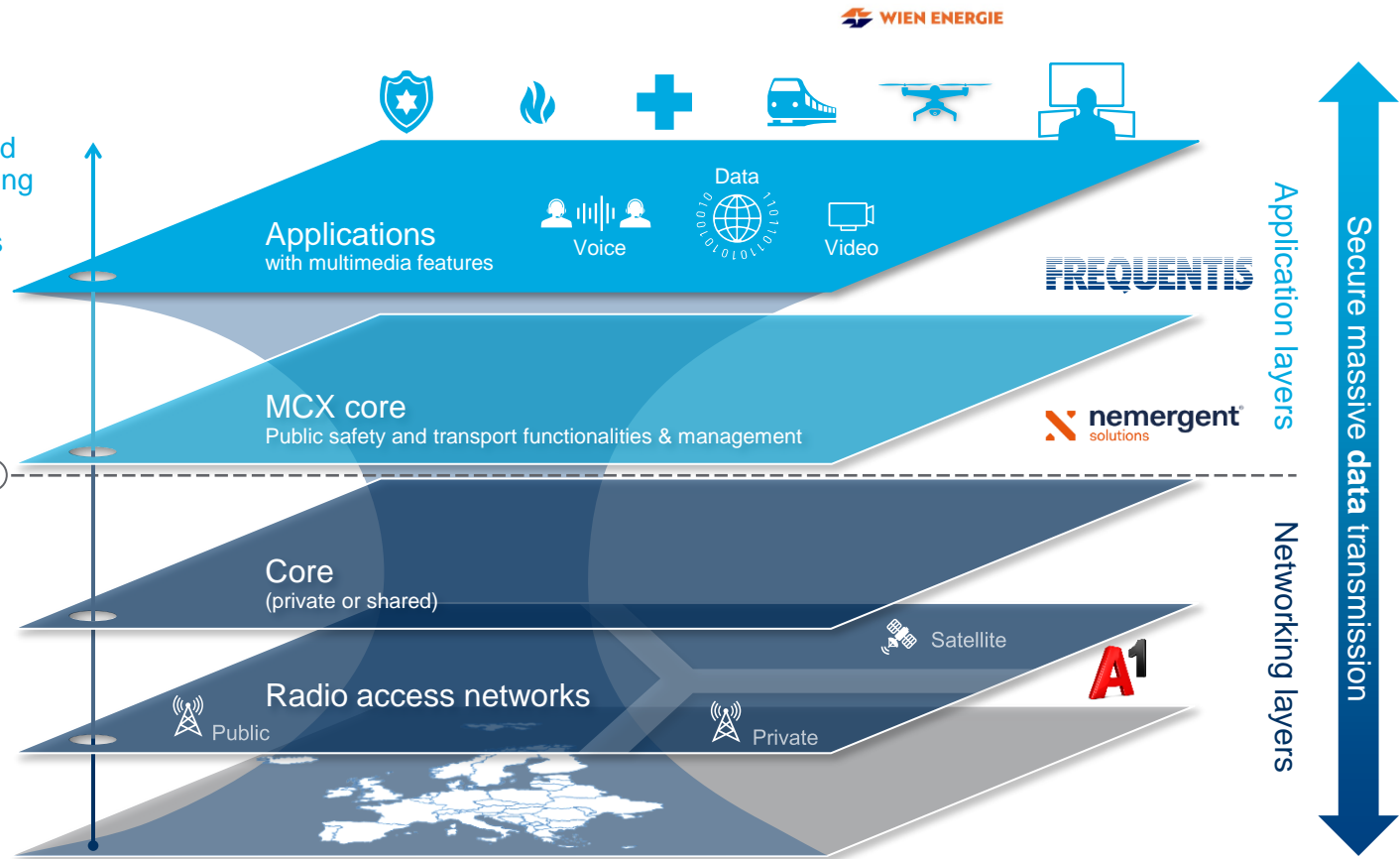
ensuring basic feature set and interoperability

Abstraction

+ additional resilience
+ dedicated coverage

+ additional resilience
+ dedicated bandwidth
+ up/download symmetry

General coverage



Drone integration & management

Seamless information exchange between all stakeholders

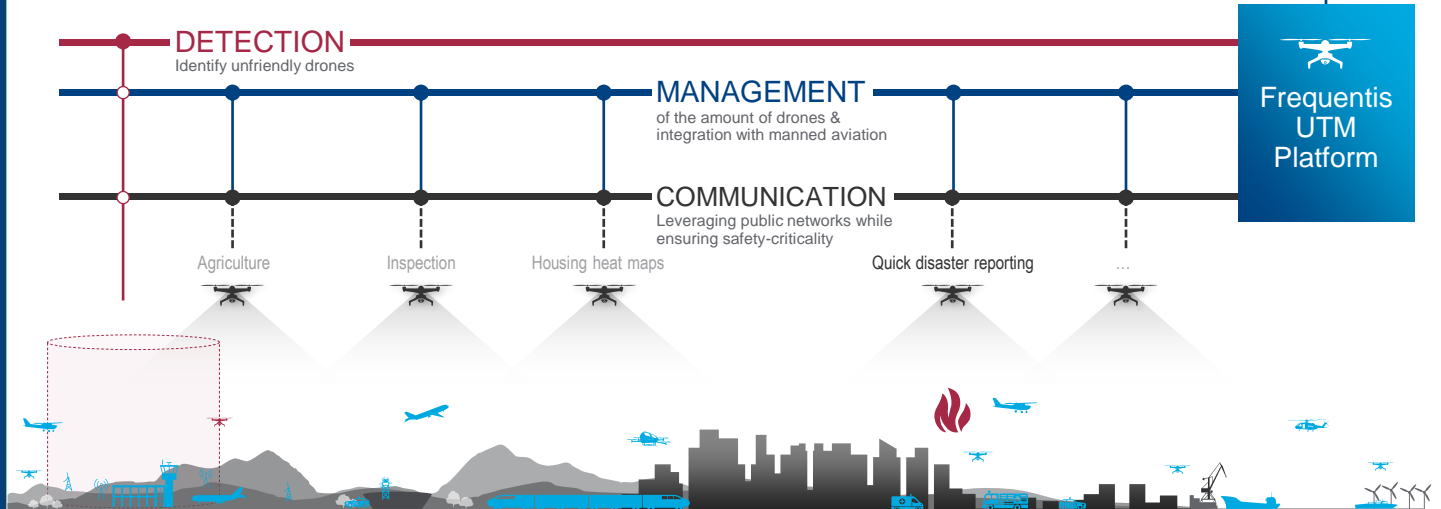
Interoperability and standardisation are key enablers to build the ecosystem.



Large scale demonstration



First ATM/UTM integration system in the EU



← Uniting the things that fly →

Leap frog to a state-of-the-art solution – benefitting from ATM experience

Remote Digital Tower



Remote



Multi-remote



Advanced



Contingency

DFS Germany

3 regional airports in one remote tower centre

Santa Cruz Airport

First Remote digital tower in Latin America

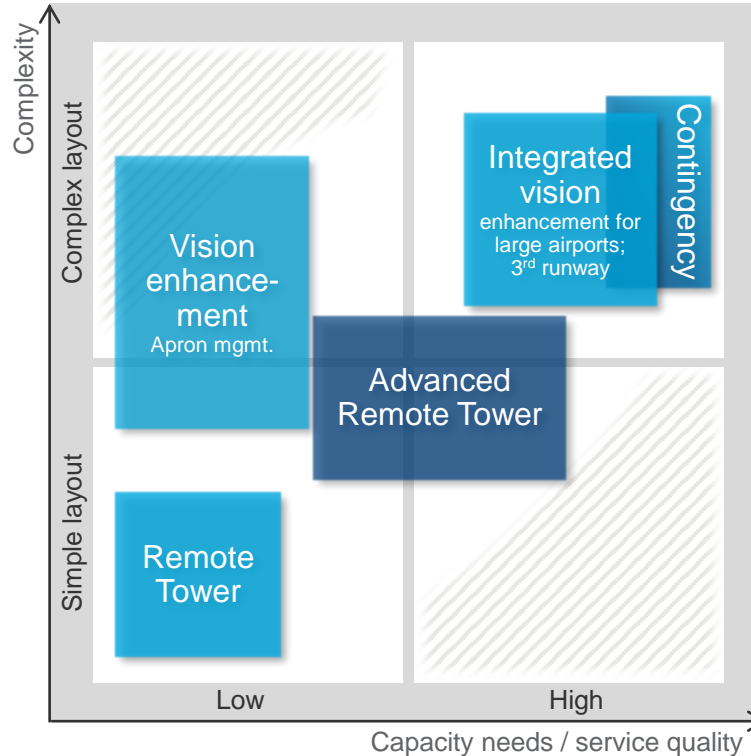
Jersey Int. Airport

contingency operations at reduced cost

Vienna Airport

Shared situational awareness

Advanced remote sensing



Visibility and situational awareness ↗

Increased safety due to additional support tools

Multi-remote ops

Synergies without losing performance

Staff efficiency ↗

Maintenance cost ↘