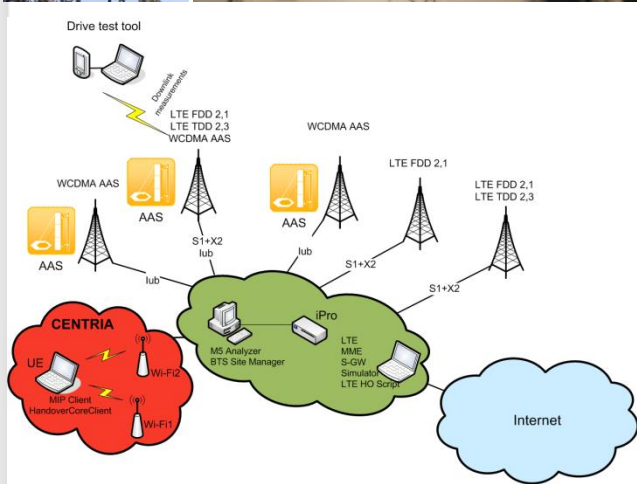




“ Cyber-security in the Wireless  
Industrial Applications”  
CyberWI project

# Centria: Existing Wireless and Embedded Systems Infra



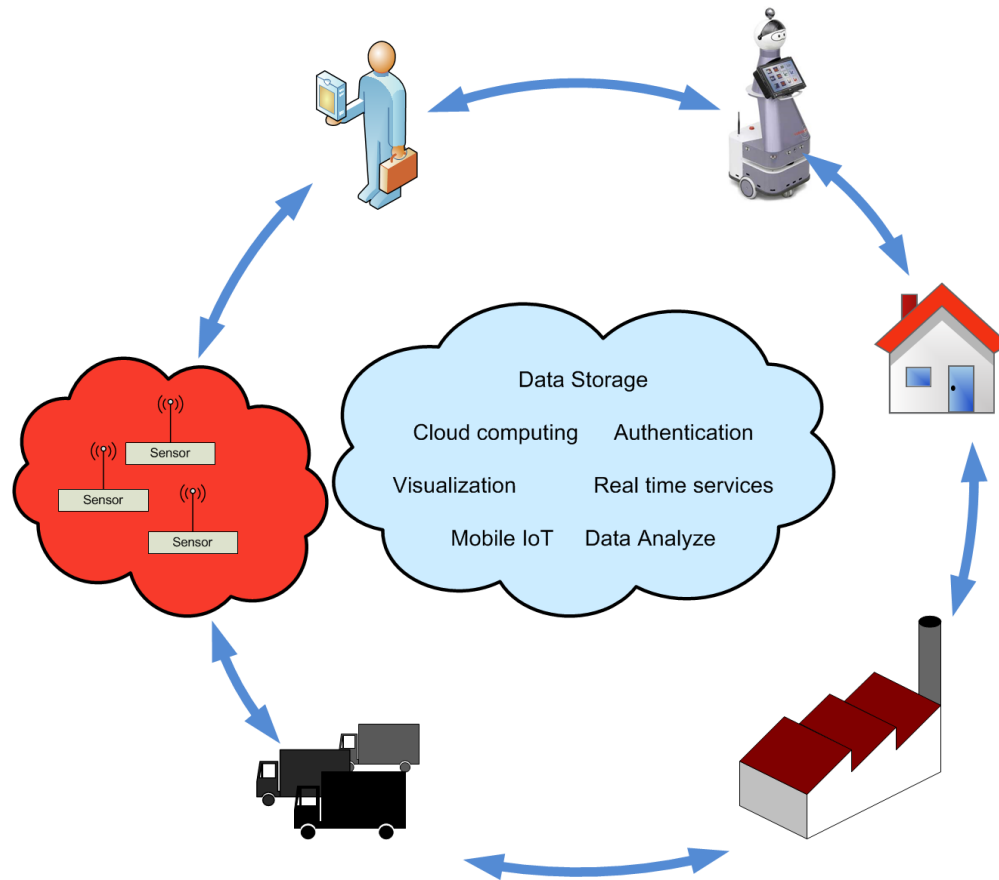
4G/5G Field Test Environment  
CORE+ project, LSA demonstration in DySPAN  
Centria Research and Development

EMC/RF

WSN

Automation

# Needs of Secure Wireless Services in Industry



# Customer and Market Needs

- Wireless technology - one of the biggest business enablers
- Future wireless networks are seen as a new cyber risk challenge to the companies who are planning to widen their business in worldwide markets
- Lack of safety technologies that are suitable for wireless solutions. This is limiting the growth
- CyberWI project aims to develop these solutions

# Goal of the Project

- Combine producers and consumers of secure solutions in the same project
- Combine the cyber technology with industrial wireless applications
- Project aims to:
  - Define the essential security risks of the future wireless networks used in society
    - In sensor network world
    - In mobile applications (4G/5G)
  - Creating reliable solutions and testing systems to the existing and future problems

# Objective

The project objective is to achieve the overall goal of secure industrial wireless applications:

- Secure industrial big data
- WSN connected to cellular network in secure manner
- Secure mobile applications
- Secure M2M connections
- Secure end-to-end connection
- Preventing back doors of systems

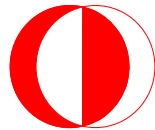


# Expected Results

European backdoorless industrial wireless application which includes:

- lite security algorithms replacing the existing heavy solutions in the Use Cases of traffic, location based applications, remote industrial applications, e-health, bank, logistics, etc
- system architecture that support lite end device solutions
- backdoorless cloud/server solutions for the Industrial Internet purposes, taking into account differences of legislations of countries
- Secure solutions for connecting wireless sensor networks to the Internet
- Secure solutions for data transfer, data storage and visualization in the mobile applications
- Testing tools for the needs of CyberWI Use Cases

# CyberWI Consortium



IndoorAtlas

Silverskin



TECHNICAL  
UNIVERSITY  
OF CLUJ-NAPOCA  
ROMANIA





# We are seeking for SMEs and industrial partners:

- domains
  - Banking
  - Logistics and transport related services
  - Fire and Rescue
  - Health care
  - Weather related services
  - Cyber technology
  - Wireless network technology
  - Cloud services
- and other domains where cyber technology pays an essential role



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