



## Innovation Garage 2025 Info Point AI assistant

Inspired by ChatOPM application for Customer Support for Regulatory Solution products

### INNOVATION GARAGE DEMO LIST PROPOSAL FOR YOU:

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# CONVERSATION TRANSCRIPT

User: ciao mi elenchi tutte le demo del garage di pagani?

Assistant: Here are the demos listed for the Pagani site of the Innovation Garage:

## ## Smart Ambulance

- **Category:** AI powering Connectivity
- **Technology:** 5G, 6G, eHealth, Artificial Intelligence
- **Domain:** Core Network, Enterprise
- **Duration:** 10 minutes
- **Speakers:** Massimo Iovene, Raffaele Castellano
- **Technical Topics:** 5G, Artificial Intelligence
- **Description:** This demo showcases how 5G networks and artificial intelligence can improve emergency healthcare by analyzing ECG traces for early diagnosis of cardiovascular diseases.

## ## Against Fraud Voice Distortion

- **Category:** AI powering Security
- **Technology:** Machine Learning
- **Domain:** Core
- **Duration:** 8 minutes
- **Speakers:** Romina Pancione, Gianpaolo Di Mauro
- **Technical Topics:** Machine Learning, Artificial Intelligence
- **Description:** This demo uses AI/ML to detect and alert against synthetic speech mimicking a specific individual's voice for fraudulent purposes.

## ## Network Troubleshooting

- **Category:** AI powering Connectivity

- **Technology:** Generative Artificial Intelligence
- **Domain:** Core Network
- **Duration:** 10 minutes
- **Speakers:** Silvano Morelli, Raffaele De Santis
- **Technical Topics:** Artificial Intelligence, RAG, multi-Agent, Serviceability, Troubleshooting
- **Description:** This demo uses a Retrieval-Augmented Generation (RAG) database to automate network operations and troubleshoot telecom networks.

## ## Enterprise Configuration

- **Category:** AI powering Connectivity
- **Technology:** Generative Artificial Intelligence
- **Domain:** Enterprise
- **Duration:** 15 minutes
- **Speakers:** Ilaria Guarini, Francesco Tufano, Massimo Iovene
- **Technical Topics:** Artificial Intelligence, RAG, multi-Agent
- **Description:** This demo showcases a system where collaborative generative AI agents work together to develop SW applications for a smart factory based on human operator requirements.

## ## Enterprise Resource Optimization

- **Category:** Sustainability
- **Technology:** Machine Learning
- **Domain:** Licensing
- **Duration:** 10 minutes
- **Speakers:** Antonio Oliva, Giuseppe Percuoco, Giovanni Ferrara
- **Technical Topics:** Licensing, Resource Management, Orchestration
- **Description:** This demo demonstrates a centralized licensing system for active management of industrial resources, focusing on energy saving, resource preemption, optimization, and predictive

maintenance.

## ## Against Identified Stalker

- **Category:** AI powering Security
- **Technology:** 5G localization
- **Domain:** Core
- **Duration:** 10 minutes
- **Speakers:** Letizia Gaeta, Chiara Santella, Giorgia Guida
- **Technical Topics:** Public safety, Positioning, 5G monetization, Lawful interception
- **Description:** This demo uses 4G/5G network localization to protect stalking victims by monitoring the distance between the victim and the stalker and triggering alarms when the safe distance threshold is exceeded.

## ## Quantum for Network Security

- **Category:** Advanced Technology
- **Technology:** Quantum technology
- **Domain:** Edge and Core
- **Duration:** 10 minutes
- **Speakers:** Pietro Picaro, Renato Borgogni
- **Technical Topics:** Post-Quantum Cryptography, Crypto-Agility, Network Orchestration
- **Description:** This demo showcases a portable, modular software agent that applies Post-Quantum Cryptography and Quantum Key Distribution to secure network paths based on hardware security resources and crypto-agility concepts.

For more detailed information on any of these demos, you can ask for a specific description of the demo that interests you.

Faithfulness is 1.0 [0.0 - 1.0]

User: Sono interessata all'ultima dell'elenco

Assistant: If you are interested in the latest developments and demonstrations related to quantum network security, here are some key points from recent sources:

### Quantum-Safe IPsec Network Cryptography

Nokia and Turkcell have recently demonstrated a world-first implementation of quantum-safe IPsec network cryptography for mobile subscribers. This achievement marks a significant step in securing mobile networks against future threats posed by quantum computing. The demonstration validates the use of latest cryptographic standards to ensure the resilience of mobile communications.

### Post-Quantum Cryptography

There is a growing focus on post-quantum cryptography to address the vulnerabilities of current encryption algorithms against future quantum computer attacks. Post-quantum cryptography involves the use of algorithms such as dilithium-enhanced algorithms that are resistant to quantum computer attacks. These algorithms are being integrated into network security protocols to ensure long-term security.

### Quantum-Resistant Algorithms and Protocols

Efforts are underway to develop and deploy quantum-resistant algorithms and protocols. For example, the use of quantum key distribution and hybrid cryptographic schemes that combine classical and post-quantum cryptography algorithms are being explored to enhance network security in the face of quantum computing threats.

### Industry Leadership and Collaboration

Companies like Nokia are at the forefront of these developments, collaborating with other industry

players to ensure that mobile and network infrastructures are secure against the evolving threat landscape posed by quantum computing.

If you are interested in more detailed information, you can ask about specific aspects of quantum network security, such as the technical details of post-quantum cryptography or the implementation of quantum-safe IPsec in mobile networks.

Faithfulness is 0.5 [0.0 - 1.0]

User: Mi piace grazie mille per le risposte!

Assistant: Prego! Sono felice di aver potuto aiutarti. Se hai altre domande o vuoi saperne di più sulle demo del Garage di Pagani, non esitare a chiedere. Buona giornata!

Faithfulness is 0.0 [0.0 - 1.0]