"Smart agents for nework performance and security monitoring"

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5G-PPP Information Day for ICT-19 proposers

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Montimage

- French SME created in 2004
- Located in Paris (13th district)
- Workforce : 10 experts in cybersecurity, network protocols…
- Well known in Europe for research in IT security and network monitoring
- Systematic French cluster "success story"
- EU Seal of excellence
- Main products:
  - **MMT** (security and performance monitoring based on distributed intelligent agents)
  - **EPC-in-a-box** (developed with Cumucore, integrating monitoring function)
  - **Endpoint protection** (patented technology for eliminating all unwanted/unneeded traffic)

Experience in 5G & Vertical Industries

- **EPC-in-a-box product**

- **CelticPlus SENDATE:** Security as a Service, SSLA, Software Defined Security, Orchestrator

- **SoftFire FIRE+ Testbed:** Monitoring Network Security in SDN/NFV environment (MONET)

- **H2020 ANASTACIA:** Monitoring IoT networks and self-healing

- **ITEA2 DIAMOND**: Security testing and monitoring of industrial vertical use cases (Automotive, Banking, Industrial Automation, etc.)

Contributions to ICT-19

Validation	Real-time measurement of **KPIs** (security and performance) of: **5G Infrastructure** (e.g., RAN, back/fronthaul, Core, eMBB, mMTC, URLL) **Verticals** (e.g., automotive, smart factories, energy, media, healthcare)
Self-*	Provide **metrics** (for configuration, healing, optimisation, protection) Trigger **reaction** mechanisms (interact with Orchestrators and Controllers)
Visualisation	**Network and application states** Custom **dashboards** (statistics, alarms/notifications, topology…)
Integrate monitoring framework	Deploy smart monitoring **agents** Monitoring **operator** (visualisation, control, decision support and self-healing)
Advanced event analysis	**Protocols** (600+, new plugins, layers 2-7) OSI **Phyisical layer** 1 (e.g., Optical and Radio) **IA/ML** analysis **CEP** (Complex event processing), **BAM** (Business Activity Monitoring)

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