software république

vision 4rescue
saving time, saving lives

Software République unveils "vision 4rescue", an integrated technological ecosystem for the next-gen of Emergency Services

- **In response to the increasing frequency and intensity of emergencies and natural disasters, Software République introduces "vision 4rescue," designed to enhance the efficiency of emergency response during critical situations.**

- **This ecosystem, comprising 20 interconnected solutions, aims to better integrate the various technologies used by emergency services for faster and more coordinated interventions.**

- **For this innovative ecosystem, Software République has joined forces with 3 firefighter/emergency units as well as 4 other technological partners.**

Viva Technology, Paris – June 11, 2025 – For the 2025 edition of Viva Technology, Software République, a group of 7 European companies[1] that combine their expertise towards an intelligent, secure and durable mobility, has partnered with three firefighter units[2] to unveil "**vision 4rescue**," a system of interconnected technological solutions aimed at increasing the efficiency and improving the coordination of rescue and emergency services.

In France, natural disasters have increased fivefold in fifteen years, with two-thirds of municipalities now likely to experience some kind of major natural disaster[3]. Faced with more frequent, intense, and complex interventions (natural disasters, industrial hazards, urban accidents, or emergency medical interventions), emergency and rescue professions need to adapt to increasing challenges. This adaptation is all the more necessary given an aging population, growing urbanization, and an increasingly strained healthcare system, where personal assistance now accounts for over 80% of emergency services' operational activity (4 million interventions per year[4]). These growing challenges call for new solutions to risk management, intervention methods, as well as the transformation of equipment and technologies used.

[1] Atos, Dassault Systèmes, JCDecaux, Orange, Renault Group, STMicroelectronics et Thales
[2] Brigade des Sapeurs-Pompiers de Paris, la Fédération Nationale des Sapeurs-Pompiers et le SDIS 78
[3] Source Ministère de la Transition Ecologique
[4] Source Ministère de l'Intérieur

To be more effective, a key factor is removing the technological barriers between the different services used by emergency teams. Whether it involves vehicles, video surveillance cameras, or communication systems, emergency services now need seamless integration among all these devices. "**vision 4rescue**" offers a system of integrated, interconnected, and secure technologies to address this challenge.

By combining their expertise and leveraging a deep and comprehensive understanding of the Emergency services requirements, the partners have designed an ecosystem of nearly 20 interconnected solutions to:

Anticipate with precision emergencies through enhanced field vision and real-time analysis of multi-source data.

Act more effectively at every stage of the emergency and rescue intervention, with tailored, accessible, and integrated devices.

Communicate more efficiently with emergency teams and with the public through more direct, faster, and targeted messaging, thereby enhancing collective resilience and the ability to respond effectively.

Interconnected Equipment: A Decisive Lever for Emergency Response

"**vision 4rescue**" includes several pieces of equipment designed to collect and share as much information as possible:

- Long-range drones (Thales) and short-range drones (Parrot): Equipped with cameras and onboard communication systems, they provide precise surveillance of emergency zones, collecting and sharing information.
- Connected urban furniture (JCDecaux) serves as a direct communication interface with the population and plays a sentinel role. The short-range drone can use the take-off / landing platform facilitating the incident diagnosis by the emergency services.
- Renault 4 E-Tech electric vehicle (Renault Group): Tailored to emergency needs, acting as a mobile command center close to the operations.

In addition to these three pieces of equipment, electronic sensor networks (STMicroelectronics) are used in both urban (urban furniture, traffic lights, etc.) and rural environments (forests, near watercourses, etc.) to detect anomalies.

Next-Generation Technological Solutions

Software République integrates a system of technologies into "**vision 4rescue**" a set of technologies that makes it a unique and comprehensive ecosystem, capable of adapting operational responses in real time to the most complex and simultaneous situations. These include:

Modeling, simulation, and detection solutions:

- Dassault Systèmes connects virtual twins of physical and digital systems in a collaborative virtual world to simulate complex risk scenarios, explore prevention plans, and orchestrate the optimal deployment of resources.

- Cybersecure AI platforms (Thales) manage autonomous drone operations and orchestrate tactical missions, analyzing multi-source data (drones, satellites, etc.) in real time to better detect risks and anticipate their evolution - even from mobile, decentralized command centers like the R4.
- The Flux Vision (Orange) analysis tools and mission planning tools (HawAI.tech) optimize drone flight paths taking into account all mission constraints.
- A crisis management solution (Atos) integrates prevention plans, monitoring, and simulation data to organize emergency responses.

Solutions to enhance responsiveness**:**

- A V2X - vehicle to everything - solution (Orange) enables real-time communication between the vehicle and its environment.
- A tactical communication tool (Atos) connects vehicles, field teams, and drones to maximize data collection, enhanced via AI, and shared in real time.
- To transmit vital information to firefighters under stress in complex environments, Peripheral uses peripheral vision.
- Embedded AI and electronic components (STMicroelectronics) optimize equipment responsiveness, reduce latency, and ensure high data security while incorporating energy-saving solutions for greater autonomy and durability.

Guaranteed connectivity under all circumstances:

- Hybrid networks and devices (Orange), including onboard 5G network and a connected SOS backpack, along with ultra-light Wi-Fi mesh technology (Green Communications) with embedded resilience applications, ensure communication between emergency teams during critical operations where traditional infrastructure is unavailable.
- An emergency communication system (Thales) integrated into long-range drone or the R4, geolocates mobile phones in risk zones and sends alert messages to which civilians can respond if needed.
- A communication solution compliant with the C-ITS (Cooperative Intelligent Transport System) international standard ensures native interoperability and secure exchanges between vehicles and road infrastructure (Atos).

Key Partnerships

For this project, Software République and its seven members (Atos, Dassault Systèmes, JCDecaux, Orange, Renault Group, STMicroelectronics, and Thales) partnered with three firefighter units and four other technology partners: Parrot, HawAI.tech, Peripheral, and Green Communications.

Presentation at VivaTech

At VivaTech (June 11 to 14, 2025), Software République will showcase "**vision 4rescue**" (Stand G18, Hall 1.1), highlighting several real-world use cases:

- **Forest Fire**
- **Flood**
- **Urban Emergency**

Each year, Software République commits to developing innovative solutions to accelerate smart, secure, and sustainable mobility by incubating real industrial projects that will help make Europe a central hub for the mobility of the future. Past projects include:

- 2022 (Paris Motorshow): A bidirectional, connected, and secure charging station for electric vehicles, now marketed as Mobilize Powerbox.
- 2023 (VivaTech): Presentation of "H1st vision" (Human First vision), a human-centered concept car with technologies that care for the driver, passengers, and other road users.
- 2024 (VivaTech): Launch of the "U1st vision" modular vehicle concept, a first in citizen- and health-centered mobile services, now commercially available as the Medigo solution.

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About Software République

The Software République is defined as an open innovation ecosystem dedicated to intelligent, secure, and sustainable mobility. It was created in April 2021 by six founding members: Atos, Dassault Systèmes, Orange, Renault Group, STMicroelectronics and Thales. In March 2024, JCDecaux became the seventh partner member.

The Software République builds collective businesses focused on tomorrow's mobility through its unique horizontal collaboration model. The ecosystem stands out for its innovative approach, combining established companies and start-ups from different backgrounds to bring to market products and services that meet the new challenges of the connected vehicle, the smart city and energy. These projects are based on the complementary expertise of its partners in data analysis, artificial intelligence, cybersecurity, connectivity, and virtual twins, and on the ambition to invent a new model of innovation while keeping people and the environment at the heart of its motivations.