

# Case study – Automatic Reconstitution and Injection Device for Emergency Use



## Project

**Single use** device for **Emergency use**

Plug-and-play auto-injector enabling **quick and easy automatic** reconstitution and injection

Cartridge based system

## Challenges

- **Quick** preparation and injection time **in less than 30 sec.**
- Build a **miniaturized** device combining at least 2 cartridges + driving system + electronic system + micropump + fluidic path + needle injection and retraction system
- **Easy-to-use**, intuitive
- Reliable
- Maintain internal **sterility**

## Achievements



**Only one Patient action**

Device fully automatized



**Rapid self-administration in 20 sec**

Activate, reconstitute & inject



**Dose Accuracy**

Volume and Dose +/-10% in all positions



**Miniaturization <40cl**

Compact and portable



**Intuitiveness Audio & visual**

Feedbacks for ease of use & intuitivity



**200u / 8months For HFS**

Team performance related to productivity

## Benefits



**Customer - Device ready for phase III**



**EVEON platform - Flexibility** (Vials, cartridges or both)