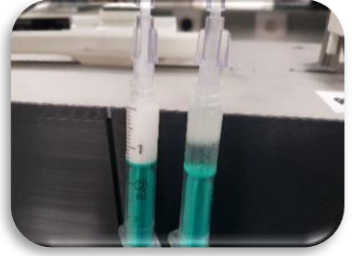
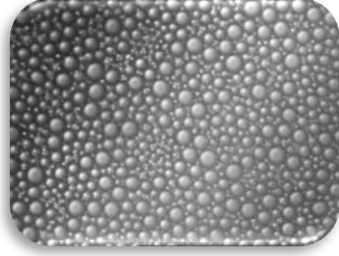
Case study – Automated and repeatable emulsion process





Project

Automatic emulsion preparation device

NBE targeting auto-immune disease ready for phase III

Plug-and-play solution for **quick vaccine preparation**

Challenges

- Bottlenecks during previous clinical trials
  - 20 min of complex manual drug preparation (2000cp) under flow hood with high risk of prep failure
  - Long user training in medical centers worldwide
- Drug efficacy highly dependent on preparation
- Drug preparation impacting market share despite high clinical results

Achievements

		Current practices	EVEON technology	Comparison	Benefits
Drug preparation	Time (min)	**20 steps 20 mins** (manual)	2 steps (automated) 2 to 3 mins	⇨ Preparation time **divided by 10**	**Good emulsion quality with process repeatability**
Emulsion quality	Particle size	-	DV50=2-2.6µm DV90=3-4.3µm	⇨ **Repeatable** process with emulsion specification meeting customer requirements	

Time saving
→ **Preparation time divided by 10**

Particle size
→ **Meet Customer specifications**

Benefits

Reduced cost, close system, avoid flow hood

No training, estimated saving of 0,7M€ for 300 centers

Save 80% of preparation time

Fasten access to clinic and market in 19 months