

Europe & Innovation

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Defi Innovation
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Amplitude

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/ Amplitude

450 employees working with **passion** to deliver the **best ultrafast lasers** in the world

-  Three manufacturing locations in Europe and US
-  Strong presence in Asia
-  Worldwide network of application labs

Industry

- > Display
- > Semiconductor
- > Consumer Electronics
- > Micro processing

Science

- > Lifescience
- > High Energy Physics
- > Spectroscopy and imaging



Medical

- > Ophthalmology
- > X-Ray Imaging

www.amplitude-laser.com



/ Pourquoi l'Europe ?

Année	Financement	Projet	Montant Subvention
2016	Europe	POLAROLL	
2016	Europe	HYPERDIAS	
2017	Europe	ESOTRAC	
2017	FEDER	X-PULSE	
2019	Europe	MULTIPOINT	
2019	Europe	MULTIFLEX	

/ Pourquoi l'Europe ?

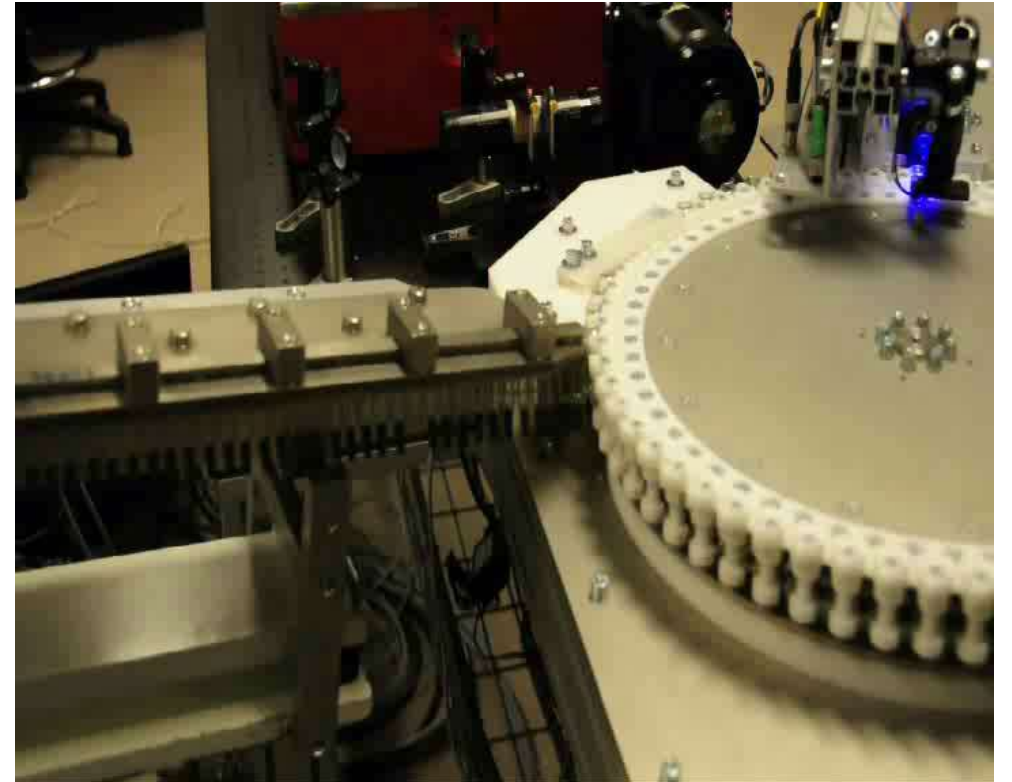
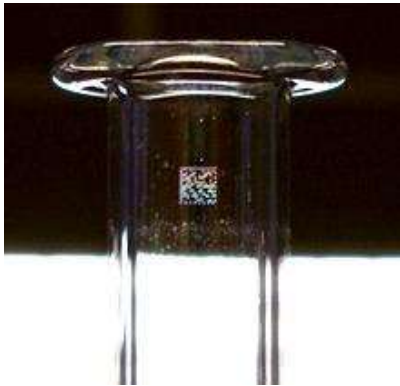
- > Effet de levier sur la R&D
- > Développement de produit
- > Partenariats industriels et universitaires

/ Monter un projet

- > Seul ou consultance ?
- > Partenaire ou Coordinateur ?
- > Un processus initialement complexe mais prédictible et répétable
- > Aisément portable de projet à projet

/ NAGINELS / SFERA

- > Marquage interne pour traçabilité et anti-contrefaçon



/ NAGINELS / SFERA - Timeline



EU FP6 project – Marking time 1s

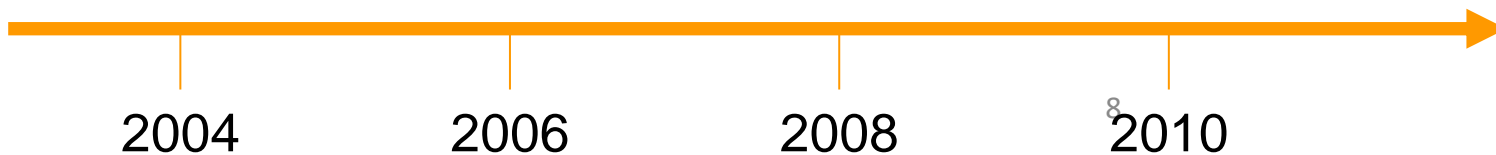


Commercial exploitation starts



EU FP7 project – Marking time 0.1s

Implementation - pharma industry

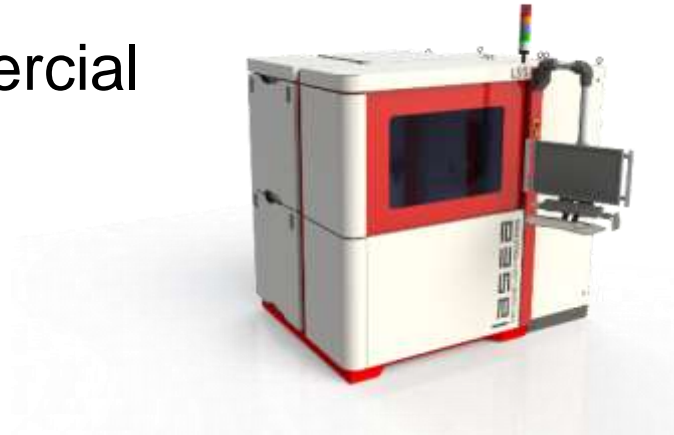


/ NAGINELS / SFERA - Retombées

- > Développement de deux produits majeurs pour l'entreprise

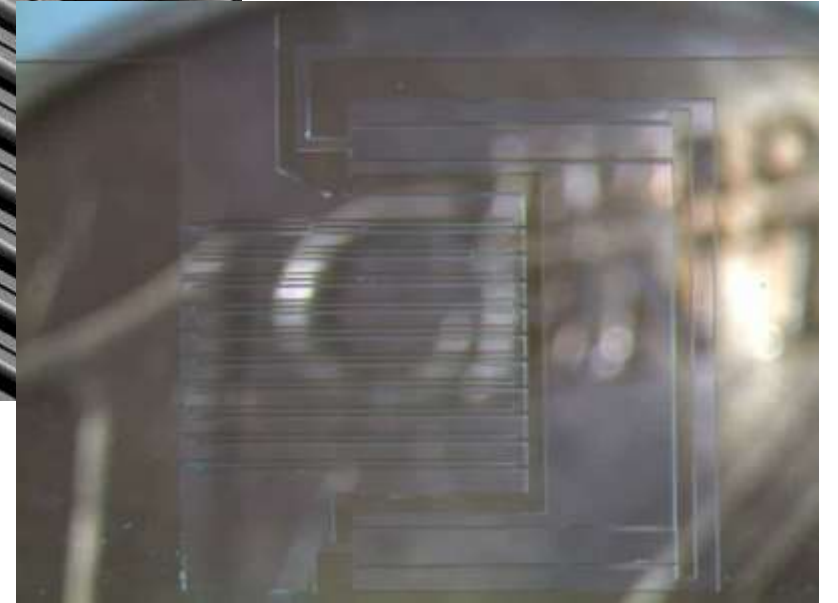
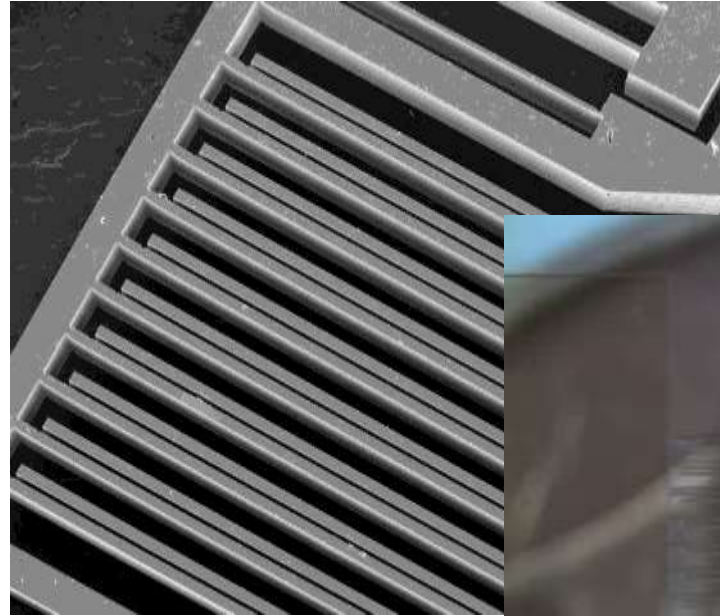
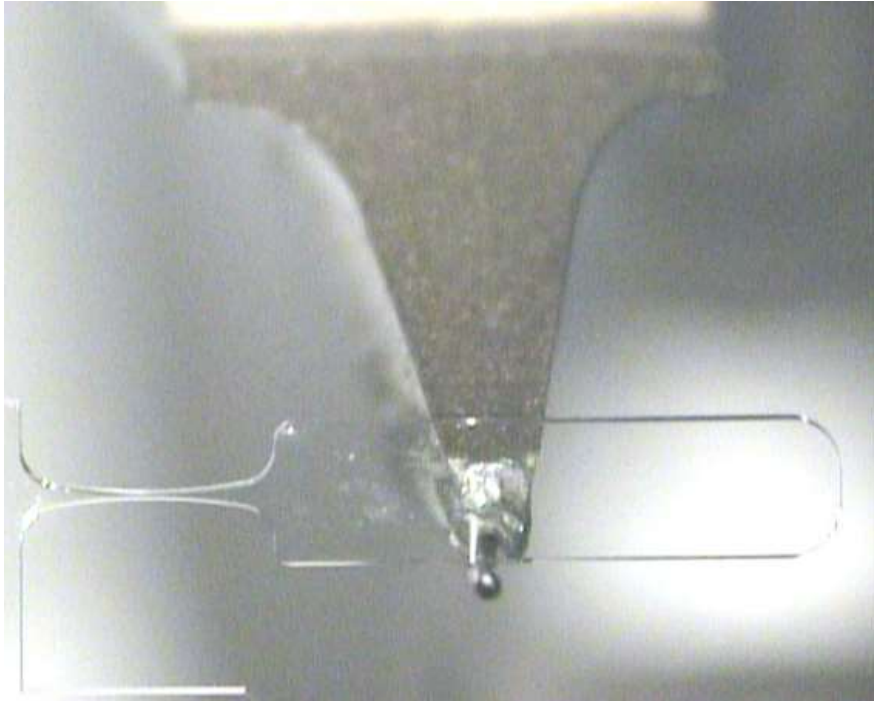


- > Partenariat industriel et commercial

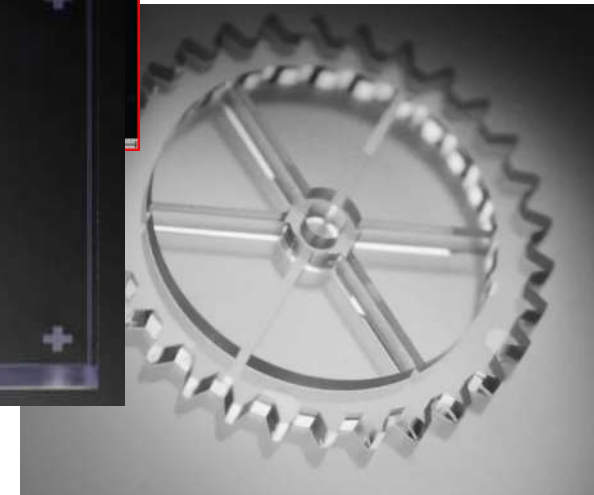
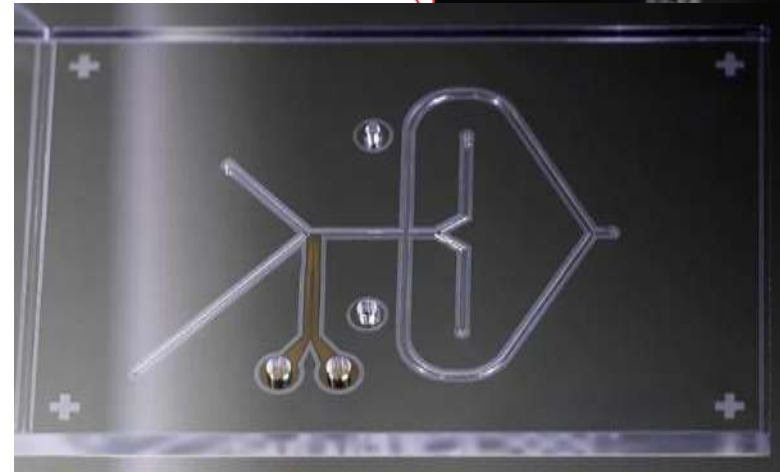
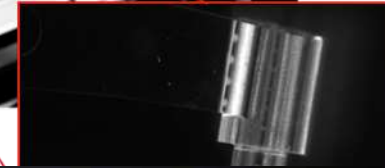
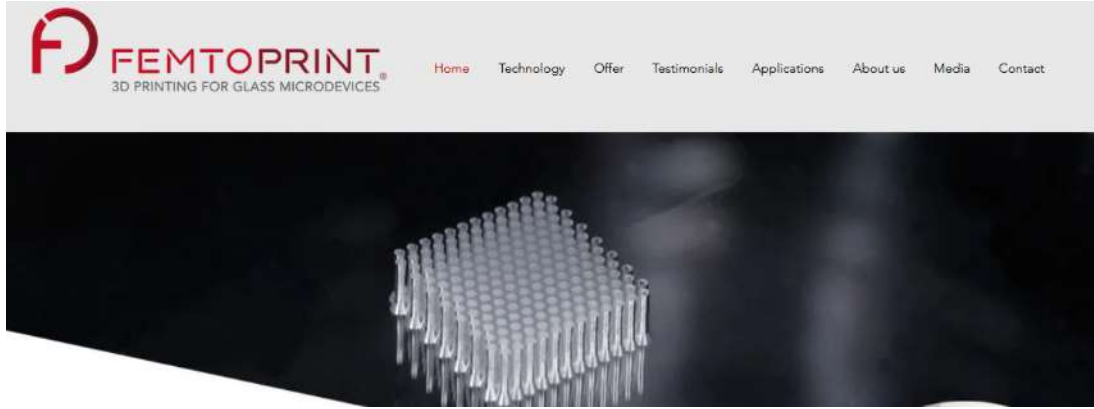


/ FEMTOPRINT

> Micro-fabrication 3D dans le verre



/ FEMTOPRINT



> Objective : high throughput micro-drilling for the aerospace industry.

- Micro-drilling of large Ti panels
- Fabrication of Hybrid Laminar Flow Control (HLFC) structure
- No chemicals

> Requirements :

- High average power (1 kW) USP laser for multi-processing



/ X-Pulse



/ Conclusion

- > L'Europe comme accélérateur de R&D
- > L'Europe comme source de partenariats et d'innovation
- > Montage de projet initialement complexe, mais accessible et reproductible

Merci pour votre attention!

www.amplitude-laser.com

