

NUMA Innovation



Who we are & research expertise?

- Engineering services company.
- Simulation code development:
 - Computational fluid dynamics & stress analysis
 - Virtual human physiology
 - AI to assist numerical predictions
- Product development & testing.
- Aerospace, biomedical and renewable energy experience.

Why a valuable partner?

- Experience in four large EU projects in FP7/H2020.
- Developer of the GoSmart software environment for modelling surgical treatments (CT scan -> virtual model -> simulated outcome -> clinician decision-making).

NUMA Innovation

2022 topics / collaboration

- HORIZON-HLTH-2022-STAYHLTH-01-04-two-stage: Trustworthy artificial intelligence (AI) tools to predict the risk of chronic non-communicable diseases and/or their progression.
- HORIZON-HLTH-2022-TOOL-12-01-two-stage: Computational models for new patient stratification strategies.
- HORIZON-HLTH-2022-IND-13-02-single-stage: Scaling up multi-party computation, data anonymisation techniques, and synthetic data generation.
- Partner with another organisation on an AI-related or simulation proposal, e.g. medical devices and improved treatment, use of Gosmart in RIA activities.

Contact details

Dr Ronan Flanagan

ronan.flanagan@numa-innovation.com

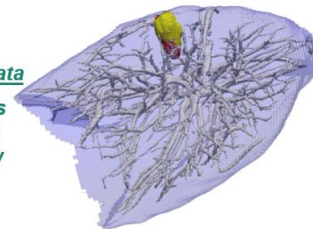
www.numa-innovation.com

Introduction to Gosmart:

<https://smart-mict.eu/>

Patient Specific Data

- Organ & vessels
- Needle position
- Liver blood flow



Simulated & Actual
Dead Cell Lesion