

## PAD-IR & ORD-IR

Technology presented by



## PAtient & Operating Room Dose in Interventional Radiology



**#Dose calculation** 

**#Prevention** 

- ➤ PADIR & ORDIR technologies aim at developing dose simulation tools for cardiac and vascular cathlab interventional procedures. These simulations can be used for the **planification** of interventions to minimize patient dose exposure and in particular safeguarding organs at risk, **dose reporting**, as well as being used to **trigger real-time alarms during interventions** to safeguard patient and interventional radiologists alike.
- ➤ The first approach results in a **3D dose map specific to the patient's** morphology and organ composition, as well as the settings of the X-ray machine. Using the second method, we generate a **radiation map for every area of the operating room's workspace**. The staff can identify zones with high levels of radiation and take appropriate measures to avoid or minimize exposure.

**Partnership: Licensing** 

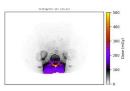


(600)

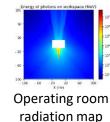
X-ray machine characteristics

Patient CT scan

**Neural Network DCNN** 



Patient specific 3D dose distribution



**IP**: Patents