



SPARS

Sequential Pattern Analysis in Robotic Surgery: Understanding Surgery

MediCIS LTSI,
Inserm/UR1

LinkMedia,
Expression, IRISA/Inria

Université Bretagne Sud

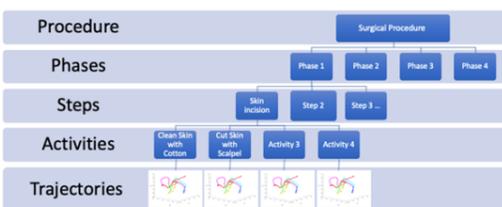
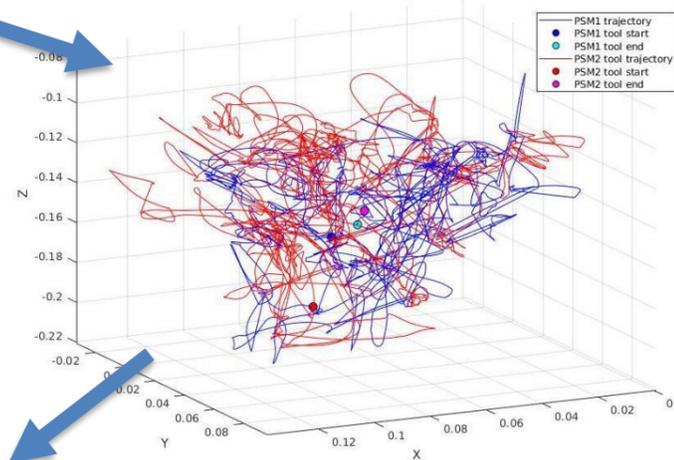
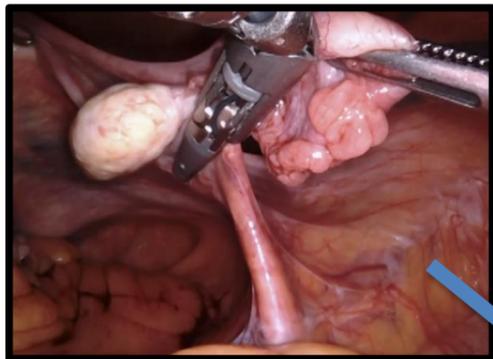
DUKE, LS2N, University
Nantes/CNRS/IMT

CHU Rennes



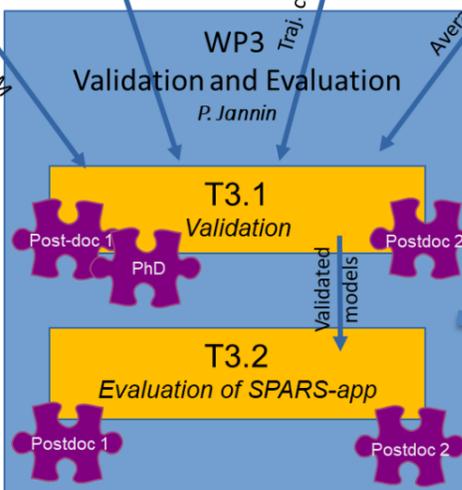
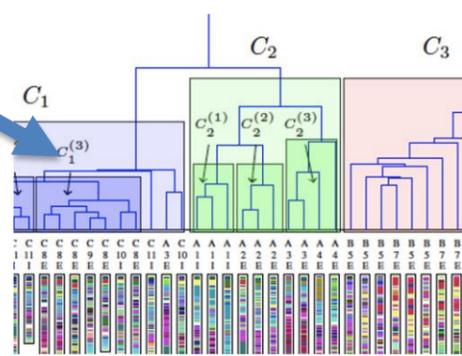
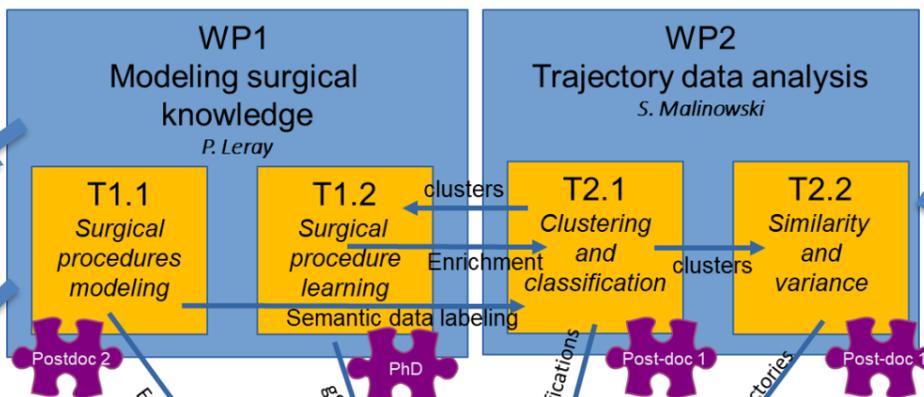
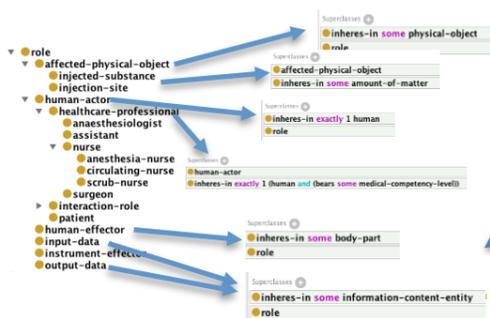
Master – Slave Robotic Surgery

Video + Kinematics



Annotated surgeries +
OntoSPM
+ expertise

Trajectories
data



Trajectory of the right tool tip
Movement specific
to novice

