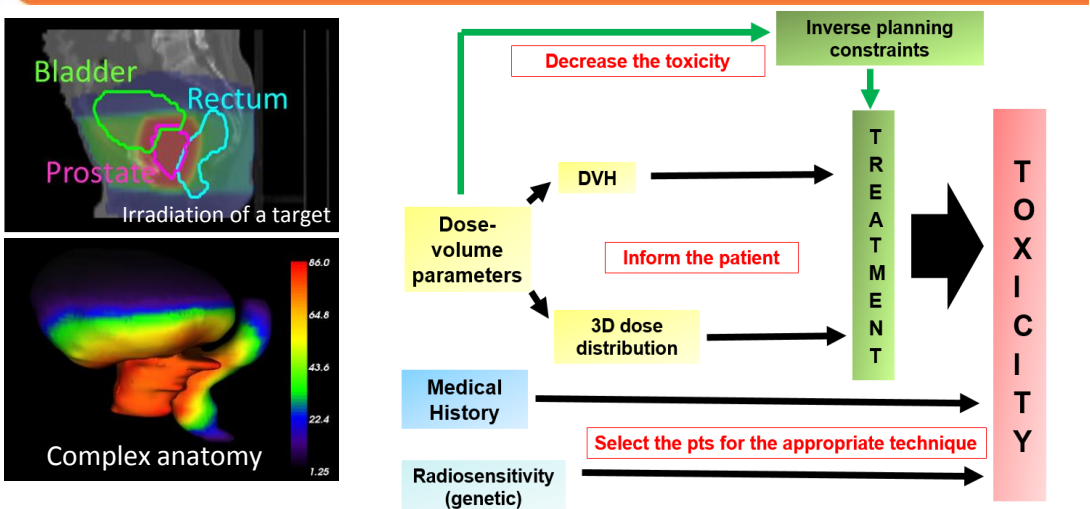


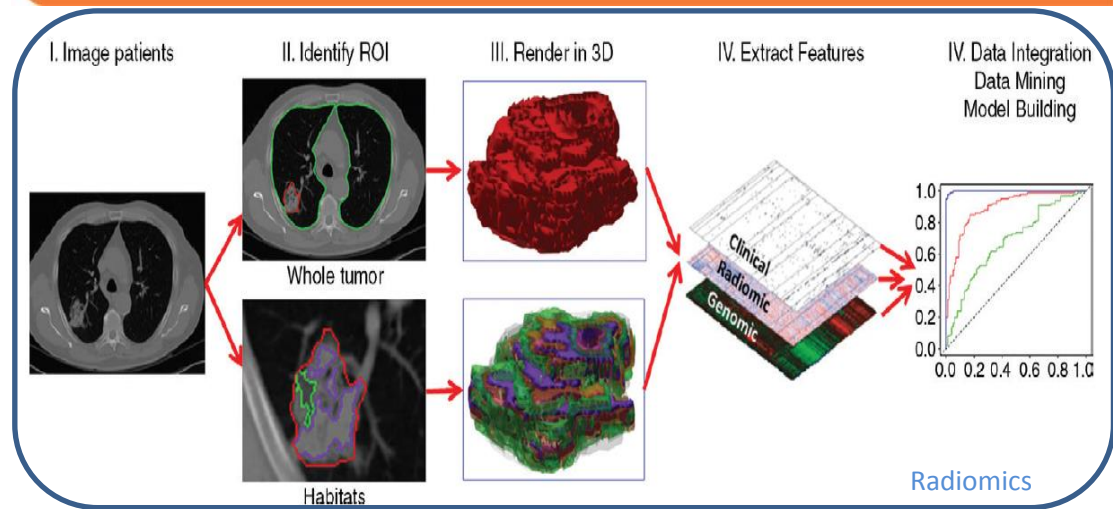
RAMPART (Radiomics and Modeling for ProstAte RadioTherapy)

Radiomics and modeling for toxicity and recurrence prediction in prostate cancer adaptive radiotherapy (2016-2018) – R. De Crevoisier, M. Hatt

Context: prostate cancer treated with radiotherapy



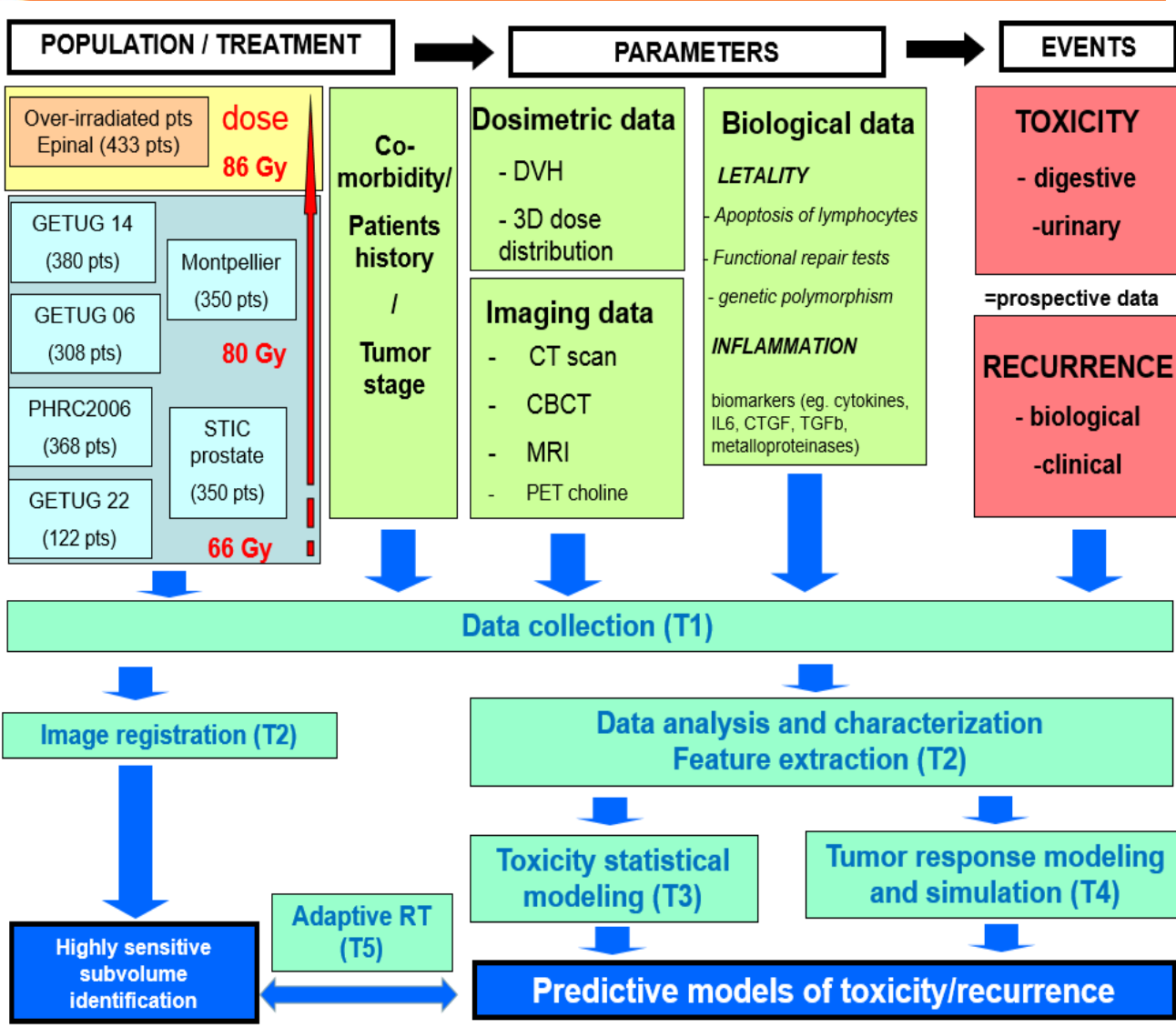
Context: The rising interest of radiomics



Challenges, novelty and potential impact

- ❖ Building predictive models for both recurrence and tumor response in relation with local dose and multimodal data
- ❖ Using advanced machine learning techniques (e.g. deep convolutional networks)
- ❖ Combining multimodal (MRI, CT, PET) imaging data (through radiomics) with biological data in a synergistic way
- ❖ Exploiting very large, multicentric, prospective real patients data
- ❖ Development of new adaptive personalized radiotherapy treatment strategies based on predictive models

Project organization and tasks



Collaborative context

