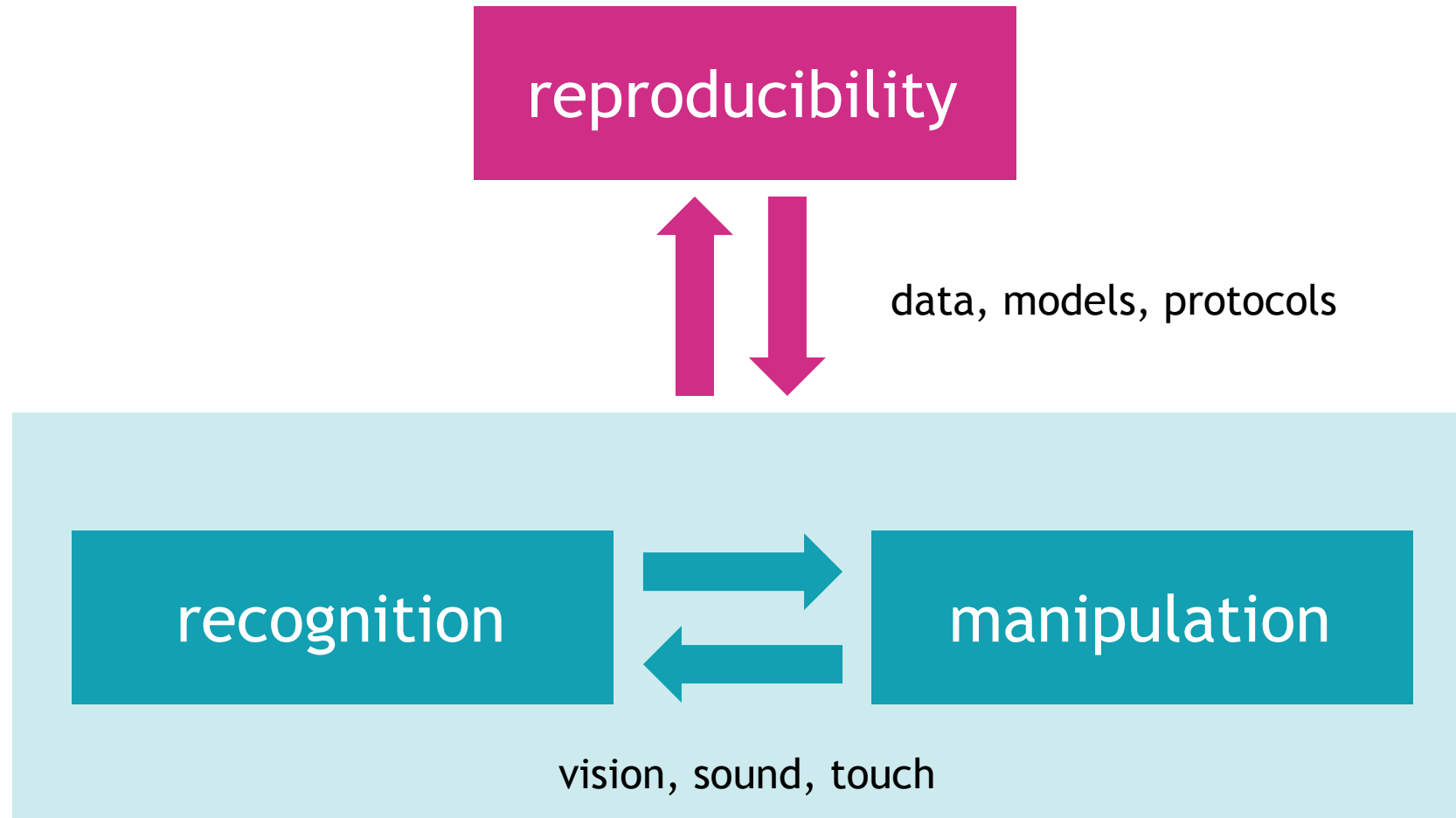# CORSMAL
Collaborative Object Recognition, Shared Manipulation And Learning

Open Science Session
CHIST-ERA Projects Seminar 2019

Scope

Aims

- To create an open dataset and an evaluation protocol for recognition and manipulation of previously unseen objects

- To explore the fusion of multiple sensing modalities (touch + sound + vision) to accurately and robustly estimate the physical properties of objects in noisy and potentially ambiguous environments
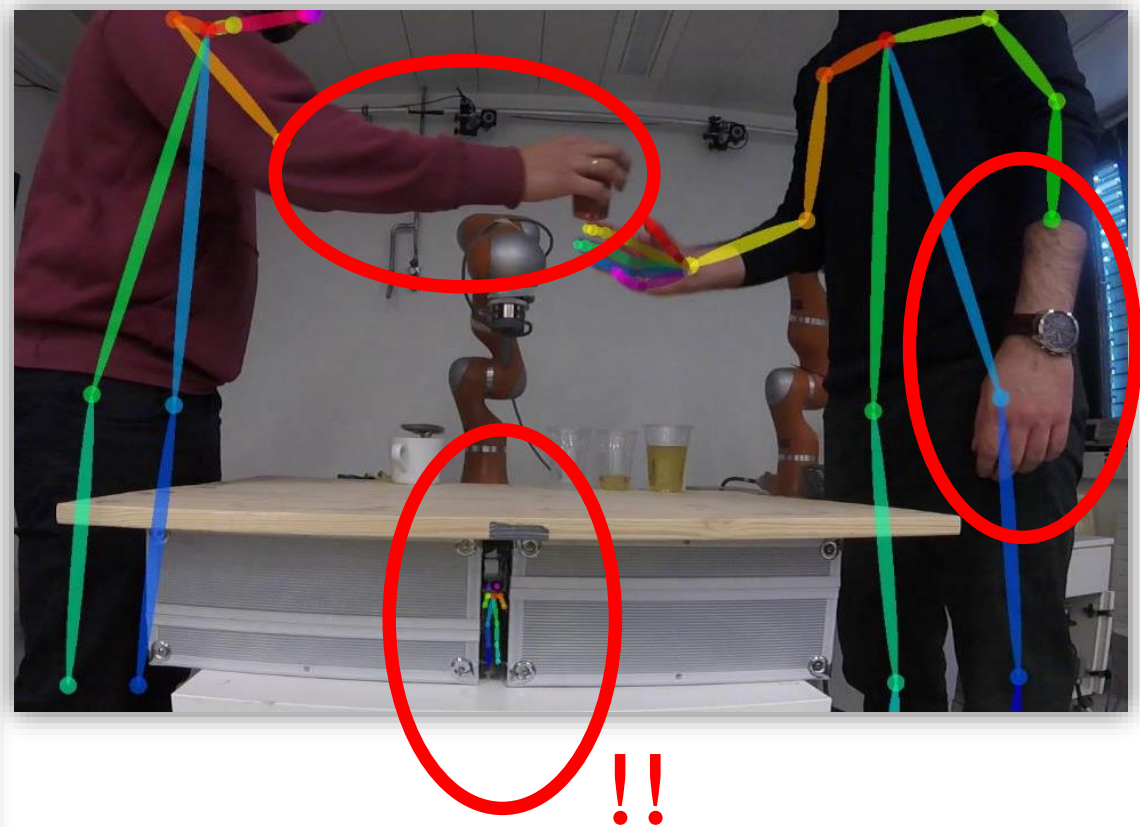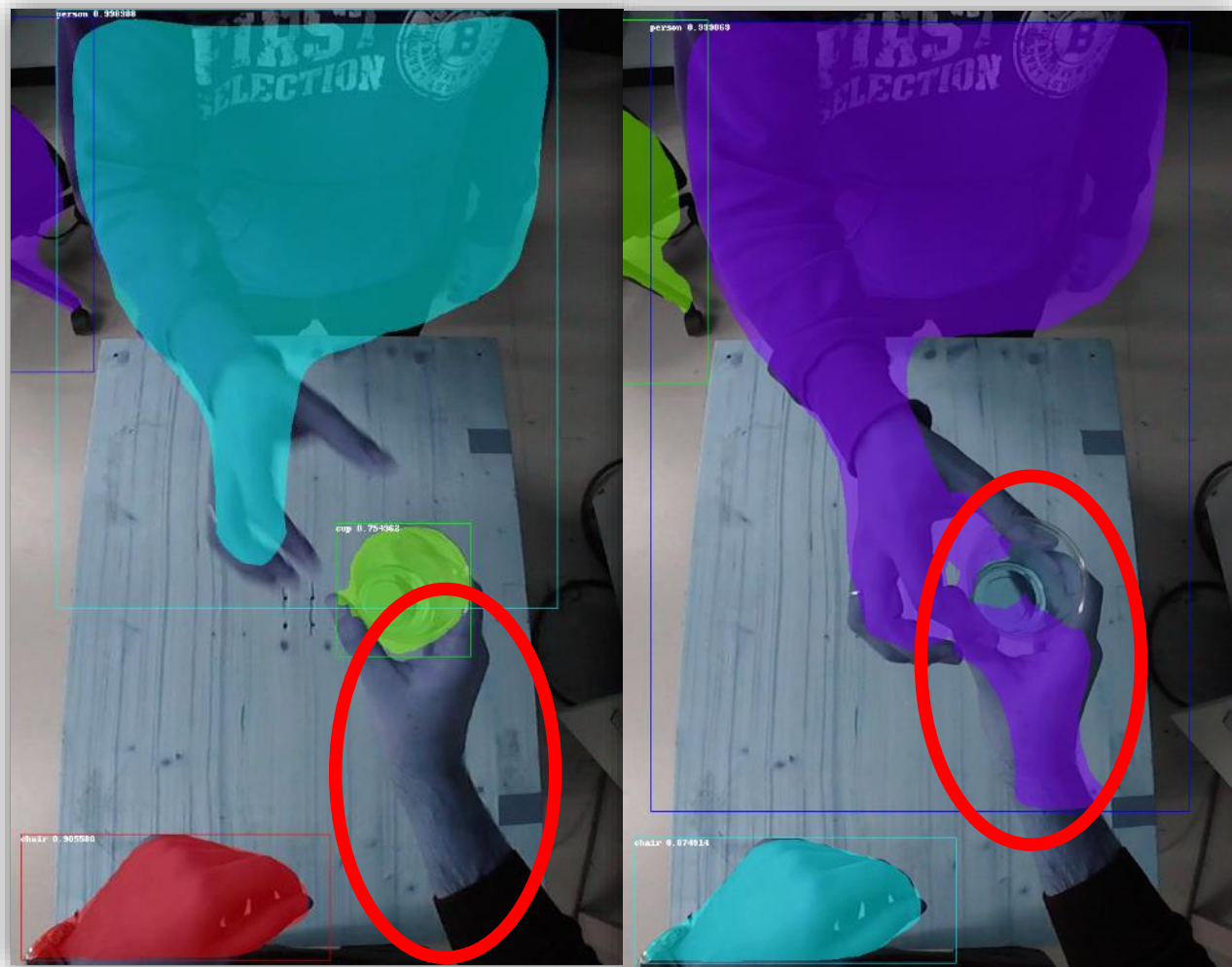
http://corsmal.eecs.qmul.ac.uk

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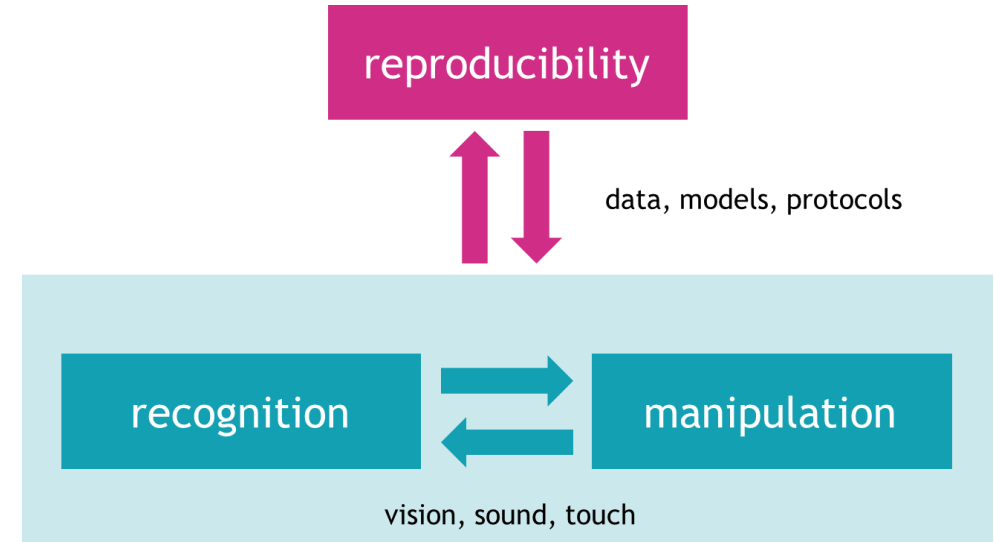
Recognition: examples
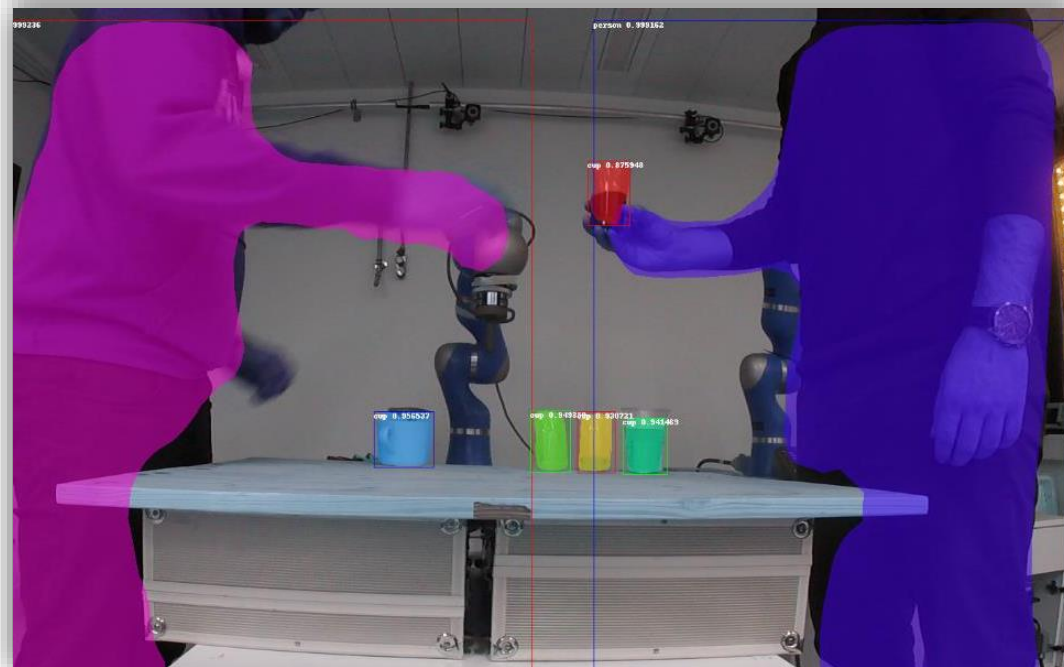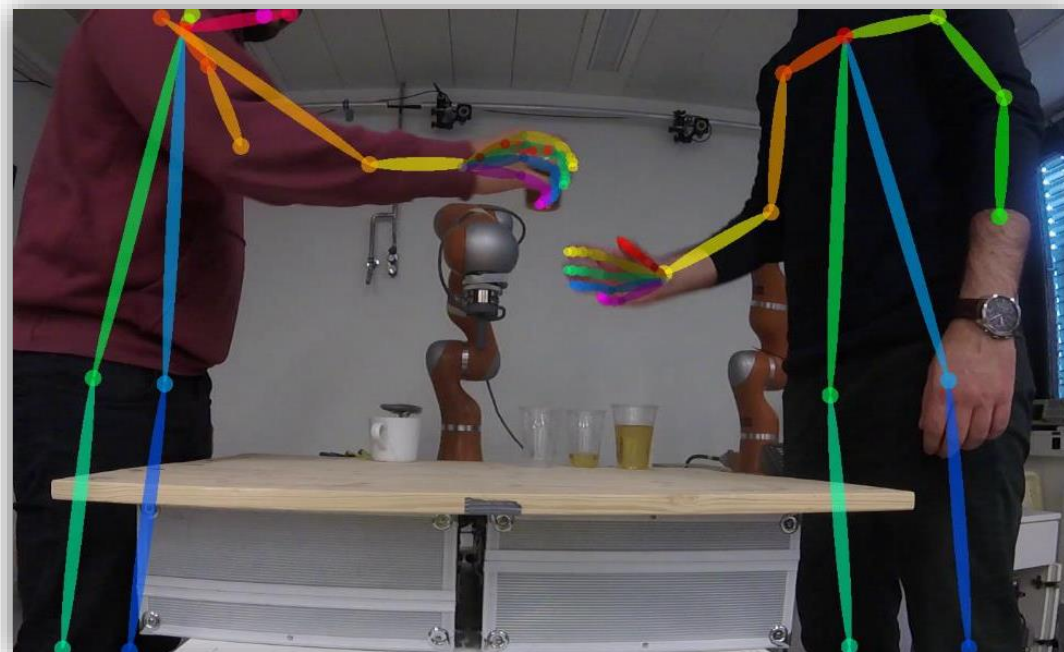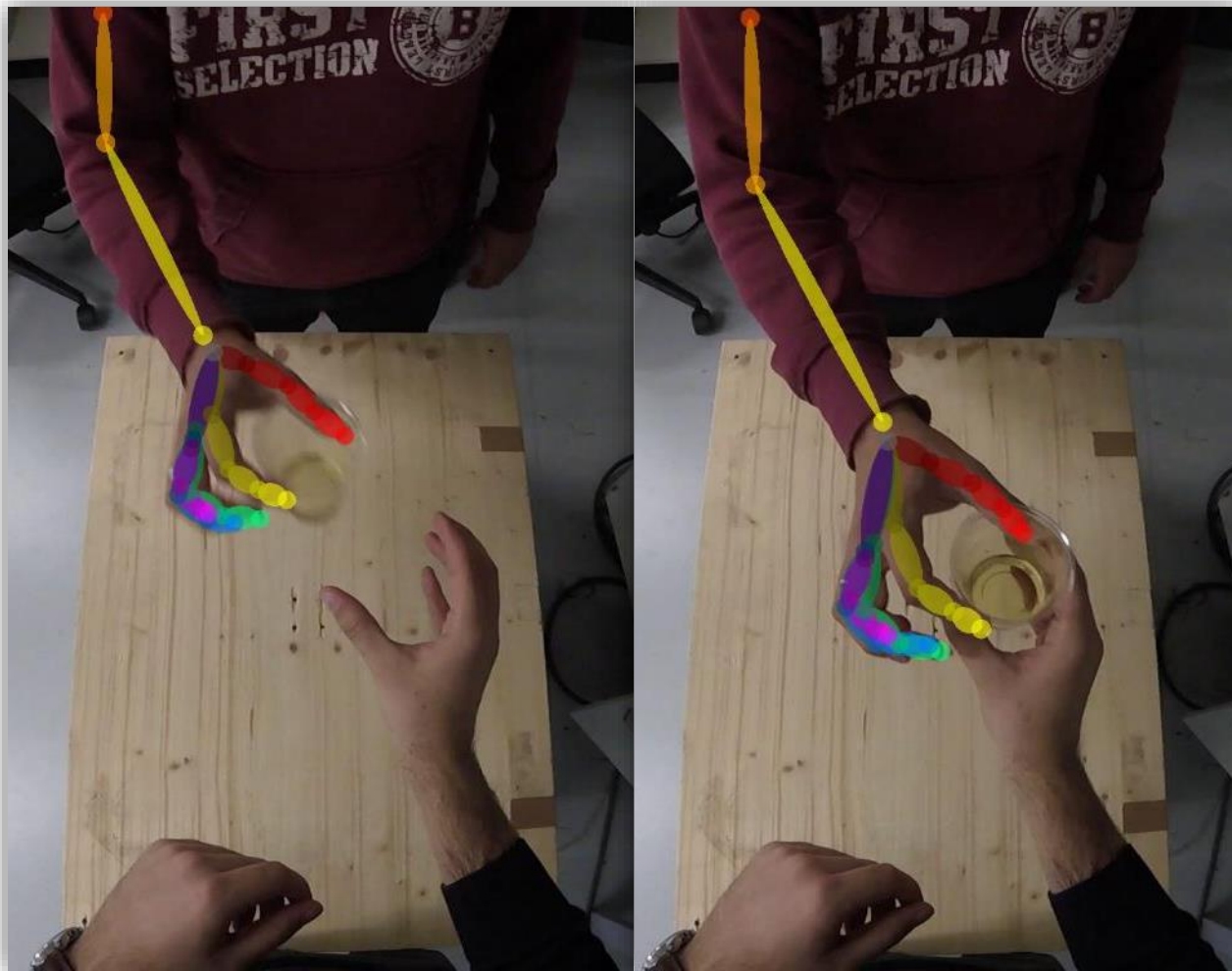
Recognition: challenges

@corsmal

Objectives

- To define learning architectures
  - for multimodal sensory data
  - for aggregated data from different environments

- To learn and adapt across manipulators, tasks, sensing configurations and environments

- To continually improve the adaptability and robustness of the learned models

- To generalise capabilities across tasks and sites

reproducibility

data, models, protocols

recognition → manipulation

vision, sound, touch

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Team

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