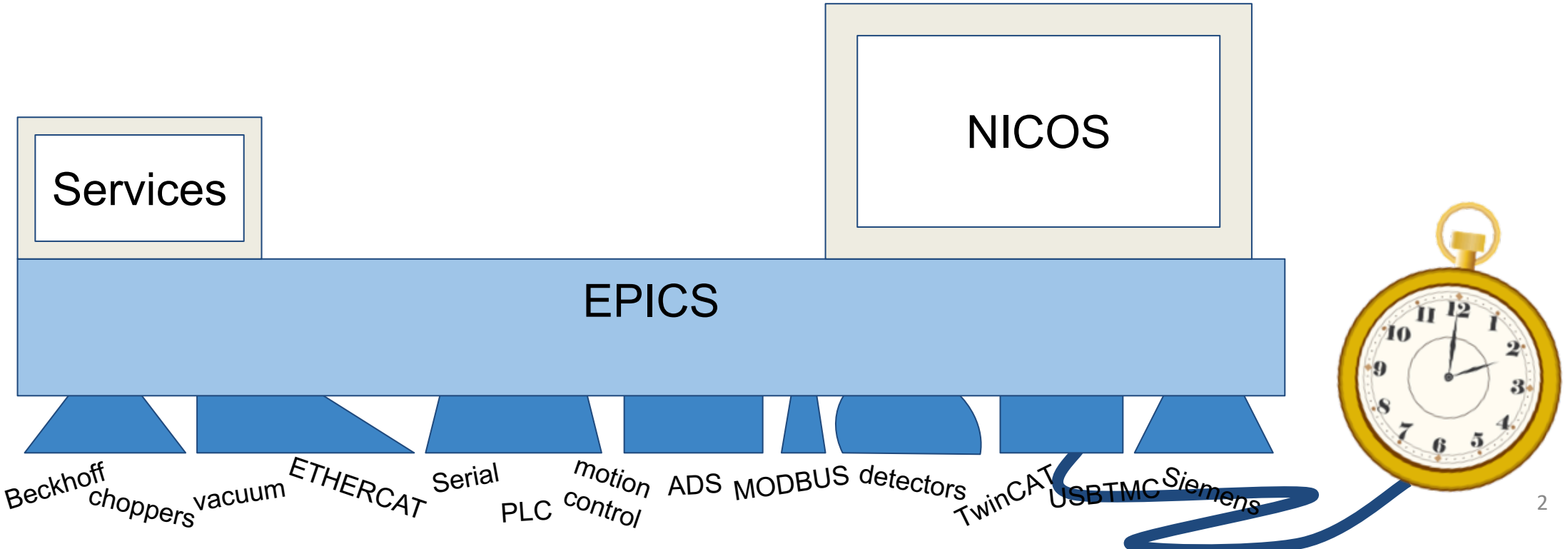
ICS and TG3
IKON 14

John Sparger
Control Systems Engineer

What does ICS do?

- Provide the EPICS Layer
- Provide the timing system



Our input to your TG3s

- ICS will be a reviewer at your TG3s
- ICS will provide a preliminary controls design document for your TG3s

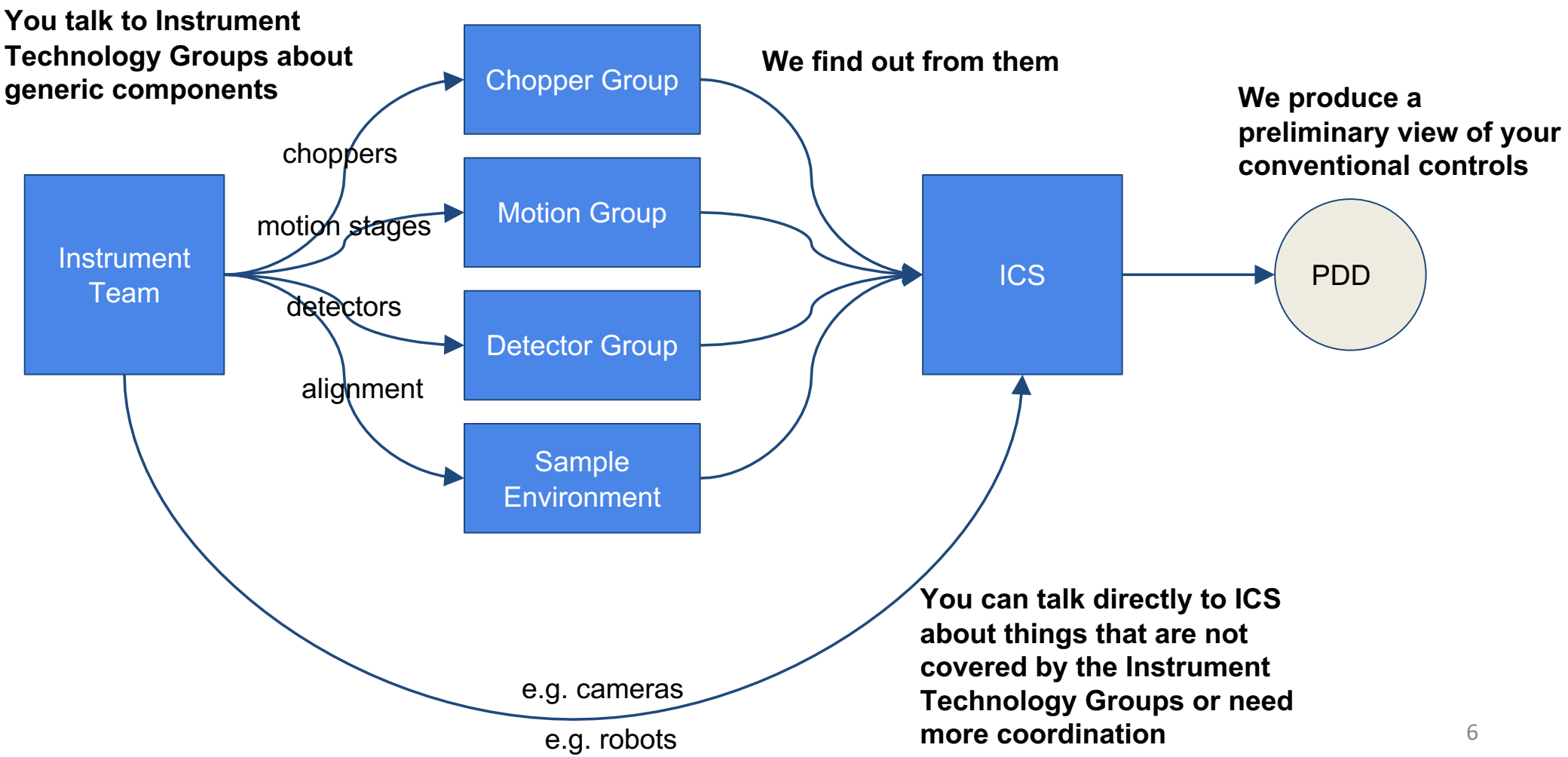
Content of Controls Preliminary Design

- A section for every controllable component of your instrument
- A description of the envisioned controls requirements
  - (what you want to do with the equipment)
- A statement describing whether the component will require generic or special controls

Special vs. Generic Controls

- Generic controls solutions are being developed with the Instrument Technology Groups
  - Chopper Integrated Controller (CHIC)
  - Motion Control Unit
  - Detector readout backend
- Special controls may be needed for components which
  - Do not fall within the scope of the Instrument Technology Groups (e.g. cameras)
  - Are unique to the instrument (e.g. robots)
  - Require specialized timing (e.g. oscillating magnets)

Flow of information



TG3 topics and dates

- What are the topics of your TG3 reviews?
  - ICS only needs to be involved with controllable components
  - We may have some input about the models you choose
- When are your TG3s happening?

Recap

- ICS will be involved in your TG3s
  - ICS will act as a reviewer
  - ICS will work with you to provide a preliminary controls design document
  - There will be a checklist to help you know what to do
- ICS will need to understand the controllable components of your instrument
  - Most of this information will flow to us through the technology groups
  - Some components will need special controls or not fit any technology group
    - Come talk to us.
    - Technology groups can help you decide when special controls are needed.