



UNIVERSITY
of York

MATT OSBORNE

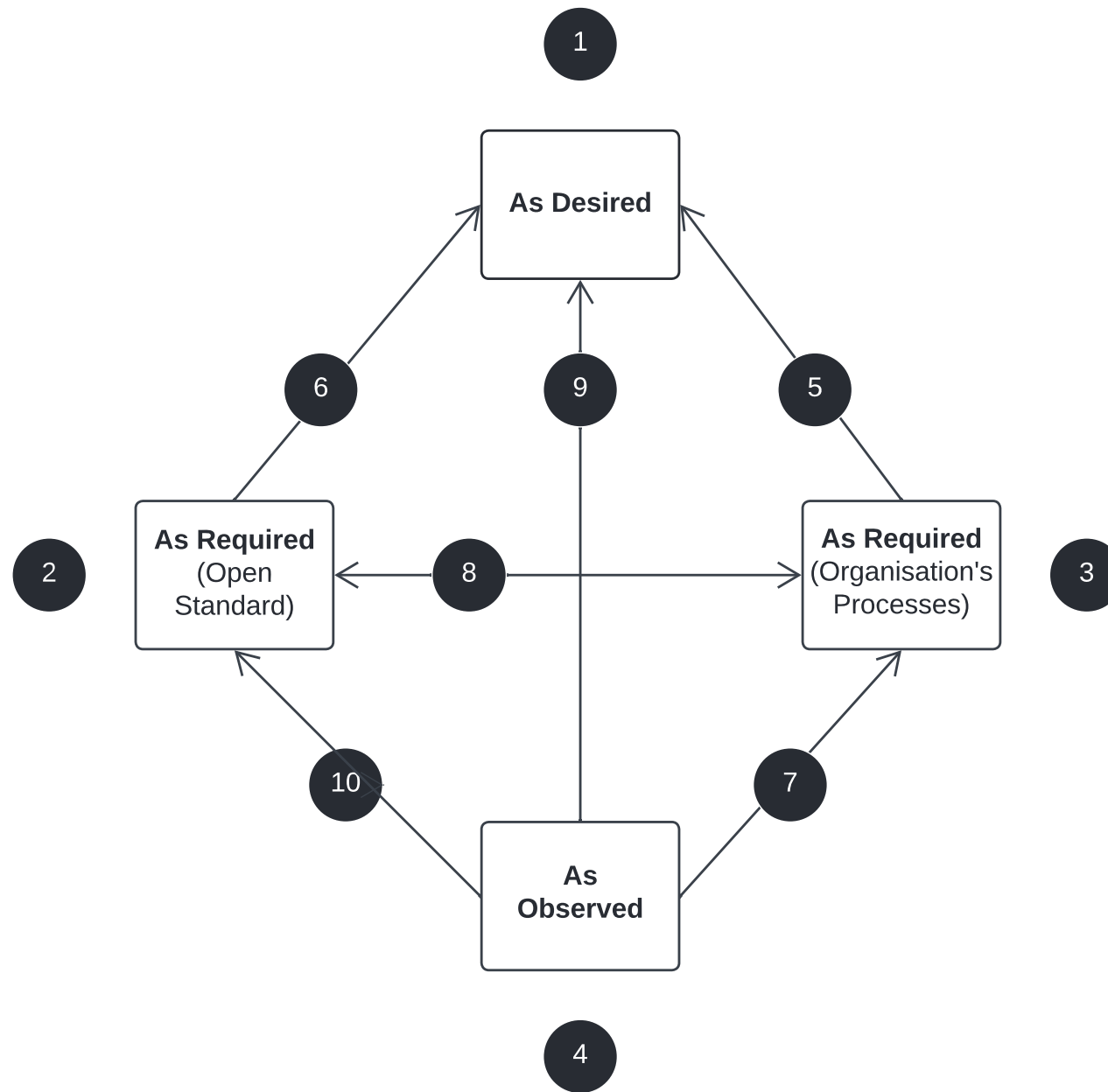
UNDERSTANDING & ASSESSING SOFTWARE SAFETY PRACTICE

CONTENTS

- ▶ Tutorial
- ▶ Practical (Comparison)
- ▶ Questionnaires
- ▶ Questions



TUTORIAL: COMPARISON



TUTORIAL: INTERNAL CONSISTENCY

ACTIVITIES:

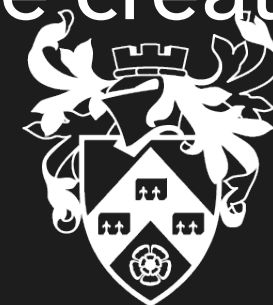
- ▶ **Internal Completeness and Consistency:** are there enough activities? Does each activity have sufficient supporting sub-activities to ensure it can be successfully completed?
- ▶ **Consideration of Aspects:** is there sufficient detail in the description of the aspects required of the identified activities to ensure that sufficient consideration is given to Inputs, Outputs, Time, Techniques and Methods, Controls, and Resources?



TUTORIAL: INTERNAL CONSISTENCY (CONT'D)

ARTEFACTS:

- ▶ **Sufficiency:** are there enough artefacts to enable successful completion of all activities? Does every activity produce an artefact; and does each activity have an adequate set of required inputs and outputs?
- ▶ **Consideration of Aspects:** is there sufficient detail of the aspects to denote when they need to be produced or used? Are sufficient quality attributes considered? Does the artefact yet exist, or does it need to be created?



TUTORIAL: COLOUR CODING – INTERNAL CONSISTENCY

- ▶ **GREEN:** The aspect has been defined, in a manner that is sufficient for the activity to successfully conclude, OR no consideration of this aspect is necessary for the activity to successfully conclude
- ▶ **AMBER:** The aspect has been partially defined. This may not be necessarily complete, nor sufficient for the activity to successfully conclude
- ▶ **RED:** There is no consideration given to the aspect. This may prevent the activity from successfully concluding



TUTORIAL: COLOUR CODING – COMPARISON

- ▶ **GREEN:** The aspect of the activity/artefact is in full agreement with that of the model of software safety practice being compared with
- ▶ **AMBER:** The aspect of the activity/artefact is in limited agreement with that of the model of software safety practice being compared with
- ▶ **RED:** •The aspect of the activity/artefact has no agreement with that of the model of software safety practice being compared with



PROCESS – PRACTICAL



END OF SECOND SESSION – THANK YOU

- ▶ Next Steps:
 - ▶ Analysis of output from Session Two
 - ▶ Analysis of Questionnaires



ANY QUESTIONS?