



UK Research
and Innovation



DARE UK

The logo for SACRO, consisting of a large teal circle on the right side of the slide. The word 'SACRO' is written in white, bold, sans-serif capital letters across the middle of the circle. The 'S' is partially cut off by the left edge of the circle.

SACRO

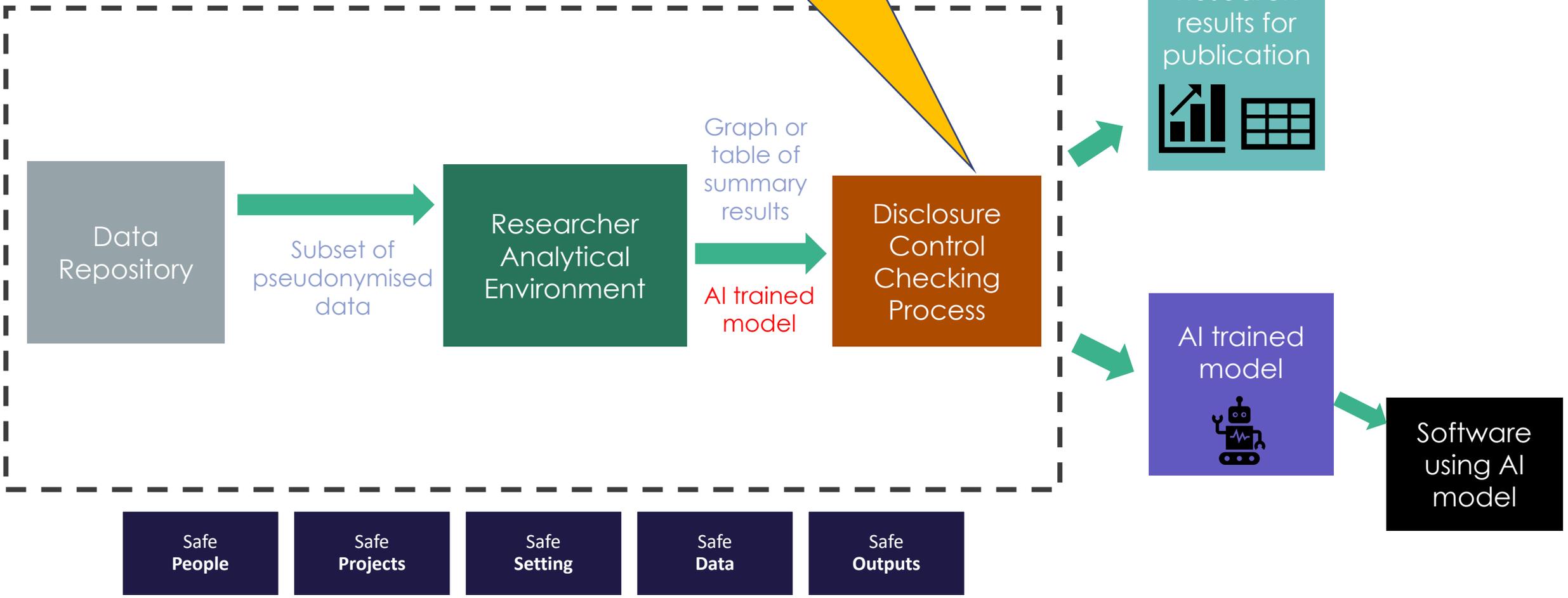
SACRO: Semi-Automated Checking of Research Outputs

Professor Jim Smith,

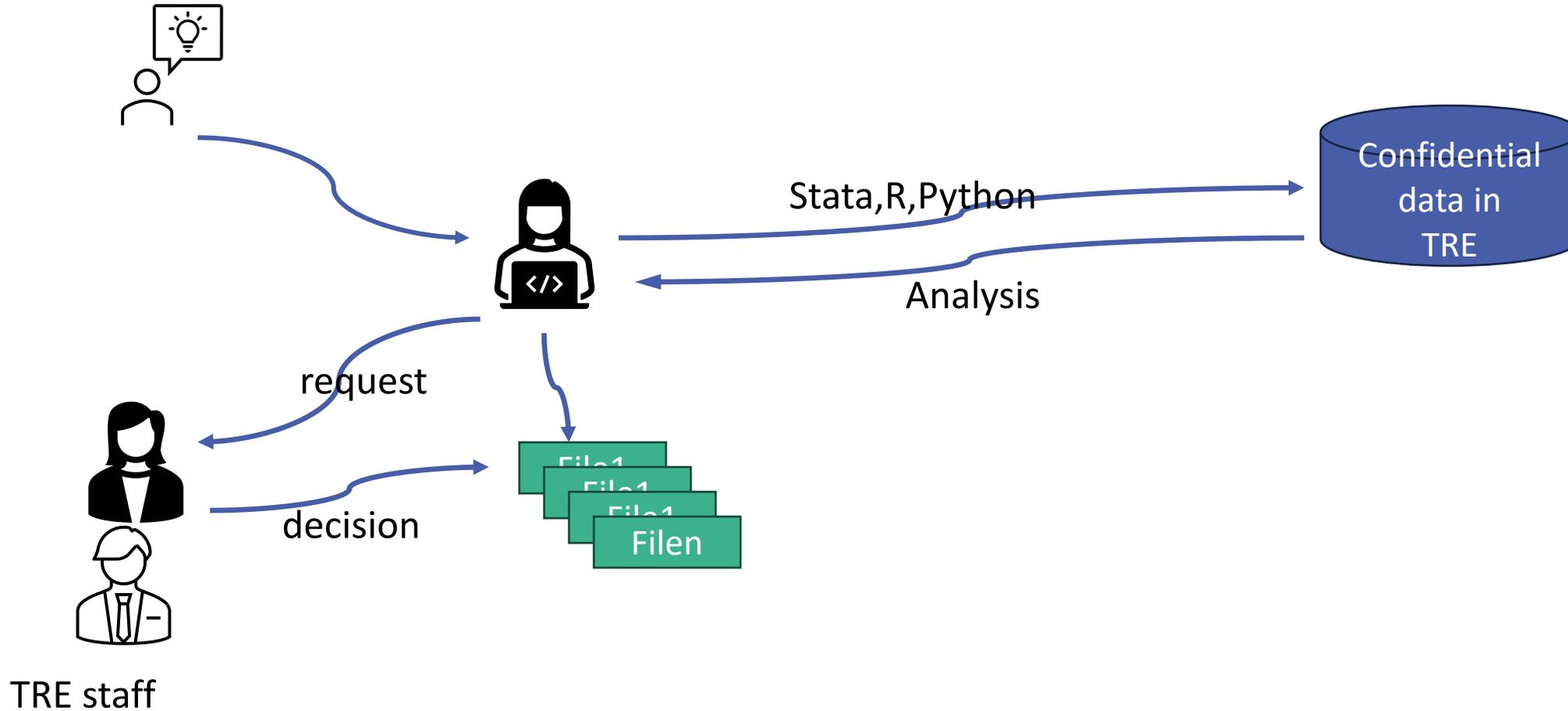
University of the West of England

DARE UK

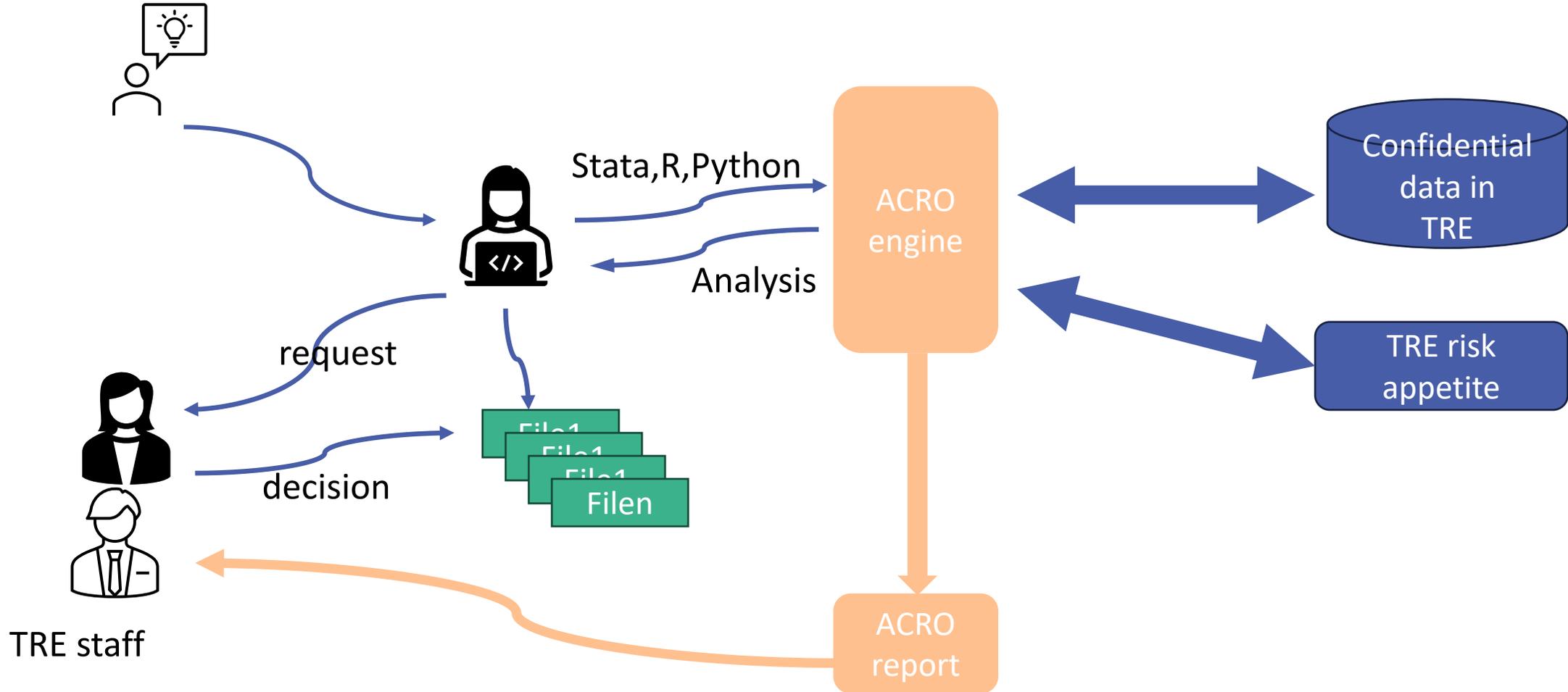
(Semi) Automating this
bottleneck!



The current situation



SACRO in a nutshell



Similar for Machine Learning Models

Except that we :

- Run a range of “inference” attacks”
- Aim to support more ‘user journeys’
- Don’t have a set of ‘tried and trusted’ guidelines to work with

Progress to Date: technical

- First sprint ‘creation phase’ completed:
 - **Initial** requirements gathering
 - Technical workpackages: code and test scripts
 - ‘Conceptual Framework’: draft taxonomy
 - TRE partner feedback meetings 6th and 7th June
- Sprint 2 ‘refinement/consolidation’ underway
 - **phase 2 requirements** driven by TRE co-designers

Progress to Date: non-technical

- A public and a stakeholder meeting held with more planned
 - consensus statement in preparation
- International Steering Group has met twice
- Around 15 meetings with external parties
 - reverse science cafe's
 - in person events: ESRC, UK LLC, ...
 - scoping meetings: Pictures, other Driver projects, ICO

Key (Unexpected) Findings

Finding	Adaptation
<p>Wide range of skills and experience amongst output checkers</p>	<p>Add links to output to descriptions of</p> <ul style="list-style-type: none"> • analysis ‘family’ • type of risk to look for • potential mitigations
<p>IT staff at TREs quite realistic about risk from python vs e.g., R</p>	<p>Focus on driving governance risk assessment at a few key TREs during project- other TREs more likely to follow</p>
<p>Users already submitting trained ML models for output checking</p>	<p>Explore possibility of reverse engineer ‘SACRO’ outputs from existing code</p>
<p>SDC people and ML researchers aren’t so different after all</p>	<p>Lots of work currently underway on finding the right language to describe ML risks</p>

‘Three stars and a wish’ ...

1. Linkages between people on SACRO and other driver projects
but are we all fishing in the same pool of opinions?
2. PIE has benefitted from existing group at Bennett Institute
who are familiar with the concept of a TRE already
3. Really helpful Steering Group

Really looking forward to meeting people from other projects (and beyond)

- Especially if they are willing to try out SACRO

Thank you for listening,

Questions?