



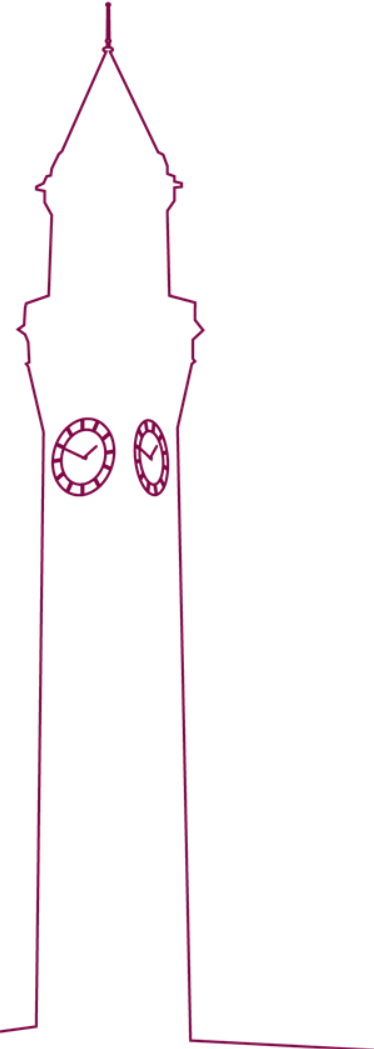
UNIVERSITY OF
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Behavioural/Social Scientists live in exciting times

- **UK What Works Network**
 - Create, share, and use high-quality evidence on policy programs and practices which combined receive public spending of more than £200 billion
 - Public health, social care, education, crime reduction, and economic growth
- **US Social and Behavioral Science Team**
 - Assists federal agencies in applying behavioural science insights to policies and operations
 - Improve public welfare, programme outcomes, and cost effectiveness



Obama's Executive Order September 2015

The White House
Office of the Press Secretary

For Immediate Release

September 15, 2015

Executive Order -- Using Behavioral Science Insights to Better Serve the American People

EXECUTIVE ORDER

USING BEHAVIORAL SCIENCE INSIGHTS TO

BETTER SERVE THE AMERICAN PEOPLE

A growing body of evidence demonstrates that behavioral science insights -- research findings from fields such as behavioral economics and psychology about how people make decisions and act on them -- can be used to design government policies to better serve the American people.

<https://www.whitehouse.gov/the-press-office/2015/09/15/executive-order-using-behavioral-science-insights-better-serve-american>



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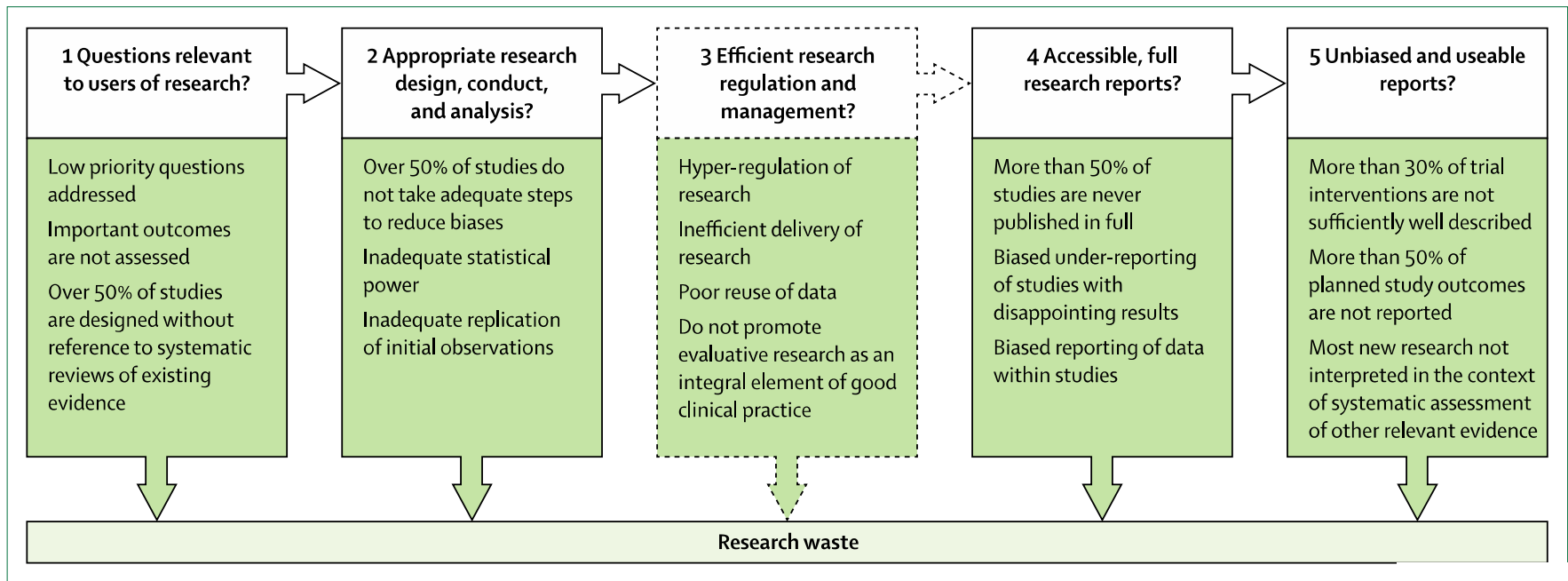
Most published research may be false

- **We have problems reproducing psychological science (Open Science Collaboration, 2015)**
 - Replications of 100 experimental and correlational studies
 - 97% of original studies vs 36% of replications had significant results
 - Mean effect size was half the magnitude of the mean effect size of the original effects
 - “There is still more work to do to verify whether we know what we think we know”



85% of biomedical research funding (\$210 Billion) is being avoidably wasted

Several stages of research production may lead to waste
(Moher 2015)



How to make more published research true

- **Some research practices that may help increase the proportion of true research findings (Ioannidis 2014):**
 - Large-scale collaborative research
 - Adoption of replication culture and reproducibility practices
 - Registration (studies, protocols, analysis codes, datasets, raw data)
 - Sharing (data, protocols, materials, software, and other tools)
 - Containment of conflicted sponsors and authors
 - More appropriate statistical methods
 - Standardization of definitions and analyses
 - More stringent thresholds for claiming discoveries or “successes”
 - Improvement of study design standards
 - Improvements in peer review, reporting, and dissemination of research
 - Better training of scientific workforce in methods and statistical literacy



This session

- **Establishing a Research Agenda for Behavioural Trials: Results from the IBTN Prioritisation Project**
 - **Prof Molly Byrne**
- **The Painful Truth about Behavioral Intervention Outcomes**
Evidence Requirements for Public Policy
 - **Prof Karina Davidson**



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