iRISE
improving
Reproducibility
In
ScienE

iRISE Overview

Sarah McCann

iRISE Kick-off meeting
Berlin, 14th-15th September 2023

Advancing knowledge through openness, integrity and solutions for reproducibility

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UK Research and Innovation
Project funded by
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Confederation
Federal Department of Economic Affairs, Education and Research EAER
State Secretariat for Education, Research and Innovation SERI

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35 Members

15 Partners

9 Countries

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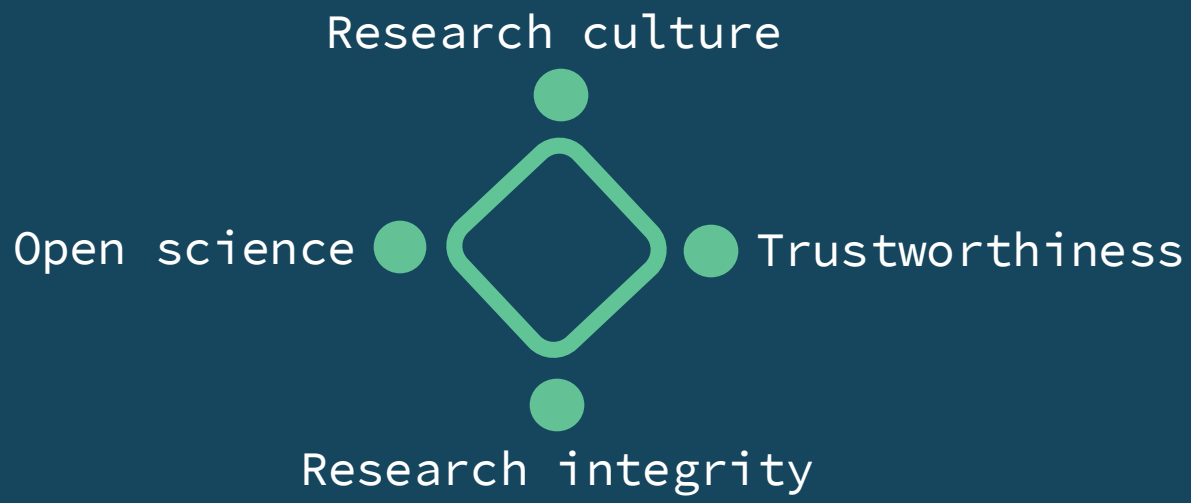
Berlin

Co-coordinators

“Mentored leadership” approach

Objectives

1. To provide a richer and deeper understanding of drivers of poor reproducibility
2. To conduct a detailed evaluation – including primary research – of the effectiveness of interventions to increase reproducibility



Reproducibility?

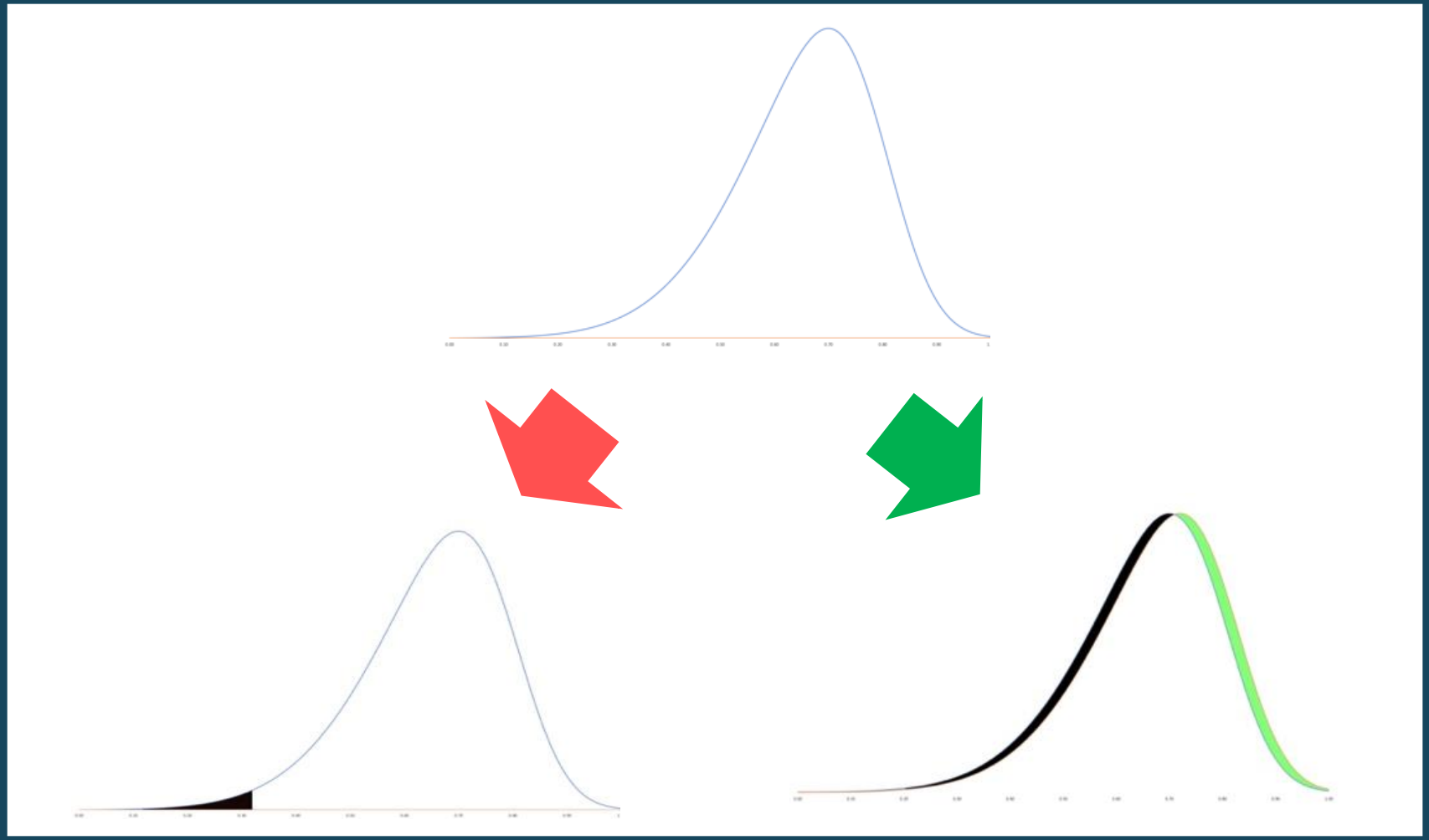
- The ability to obtain results consistent with an original specific finding

Reproducibility?

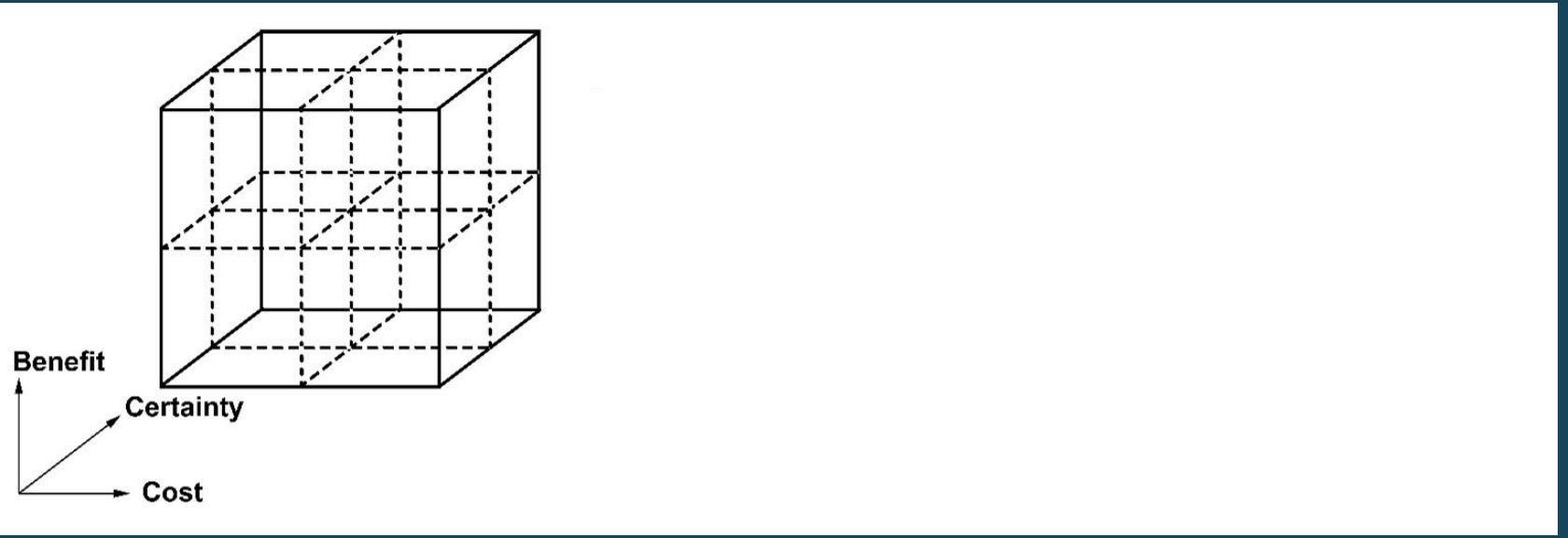
iRISE founding beliefs

1. Evolution not revolution
2. Action requires evidence

1. Shifting the curve



2. The Research Improvement Cube



What are the costs?

What are the potential benefits?

How certain are we?

Macleod *BMC Res Notes* 2022

Our approach

Current state-of-the-art in **understanding reproducibility**

Systematic evaluation and assessment of existing evidence

Engaging with **stakeholders** to prioritise and adapt practices and tools

Testing interventions to improve reproducibility

Systematic integration of **Equity, Diversity, and Inclusion** practice and culture

Inputs

the "toolbox"
– theoretical and empirical evidence describing the effectiveness of specific interventions

the "framework" – a robust, Evidence to Decision roadmap for the development, assessment & implementation of interventions

Our approach

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Outputs

Co-create **implementation guides** for interventions to improve reproducibility

Establish best practice guidelines for embedding **Equity, Diversity, and Inclusion** considerations into improving reproducibility

Develop a **policy briefing** on evidence-based recommendations to improve reproducibility

Build a **systematic online living evidence summary** (SOLES) of existing interventions

Enable community members to implement interventions by creating **training resources**

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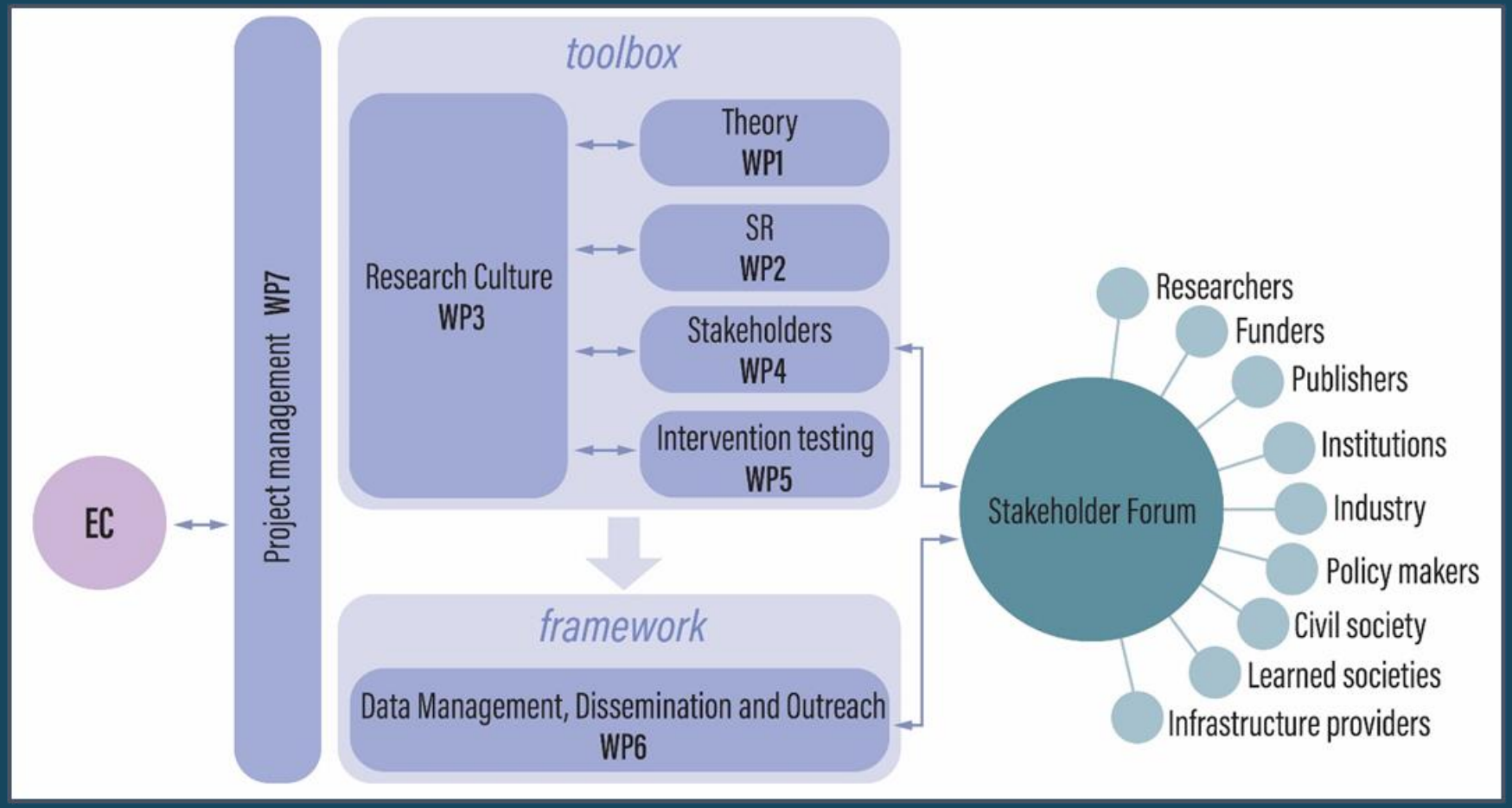
Structure


toolbox
Research Culture
WP3
Theory
WP1
SR
WP2
Stakeholders
WP4
Intervention testing
WP5
framework
Data Management, Dissemination and Outreach
WP6
Project management WP7
EC
Stakeholder Forum
Researchers
Funders
Publishers
Institutions
Industry
Policy makers
Civil society
Learned societies
Infrastructure providers

Thank you!

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