

Communities for Open Research Synthesis - integrating preclinical systematic reviews into the research pipeline

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Collaborative Approach to Meta-Analysis and Review of Animal Data from Experimental Studies (CAMARADES) Berlin
QUEST Center for Responsible Research, Berlin Institute of Health (BIH) at Charité



Systematic review & meta-analysis can help to:

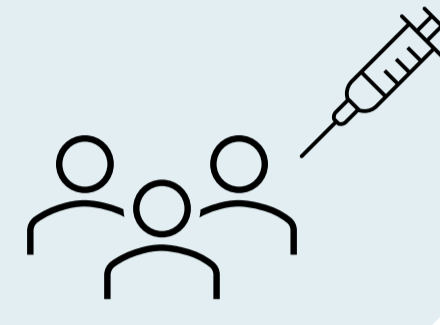
- Improve the validity and increase the value of preclinical research
- Replace, Reduce, Refine (3Rs) animal use in research
- Increase potential for translational success

Preclinical research



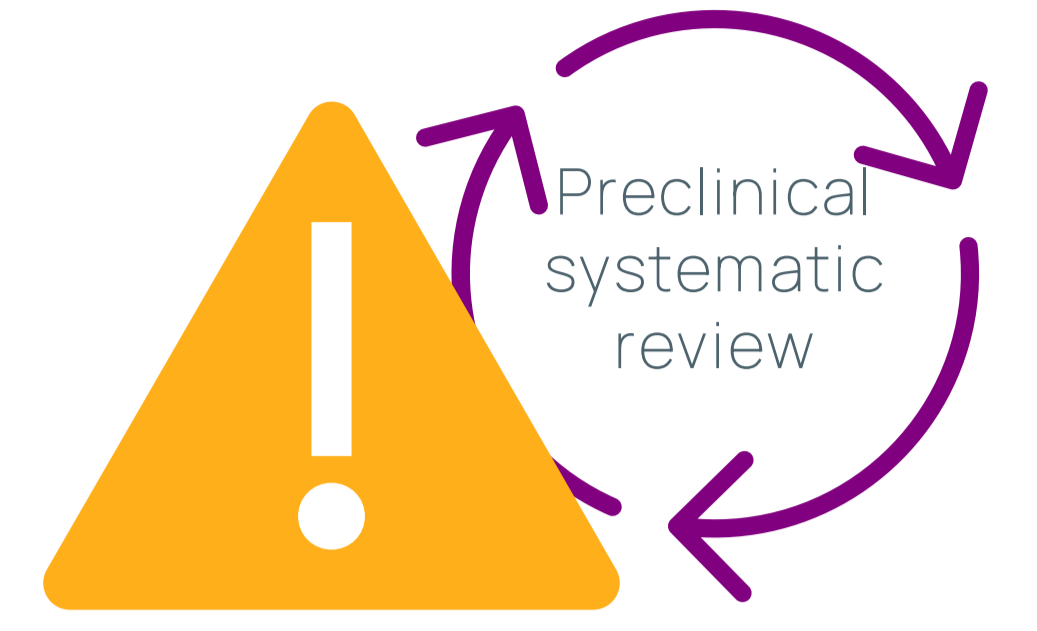
- ✓ Identify knowledge gaps
- ✓ Assess the quality and range of existing evidence
- ✓ Estimate reporting biases
- ✓ Inform 3Rs decisions

Clinical research



- ✓ Explain discrepancies in preclinical vs. clinical trial results
- ✓ Inform translation readiness
- ✓ Inform clinical trial design

Clinical practice



- ✗ Methodological training
- ✗ Capacity
- ✗ Infrastructure

Our Aim: to create a framework to facilitate the integration of preclinical systematic review into the research pipeline



Education & Support Infrastructure

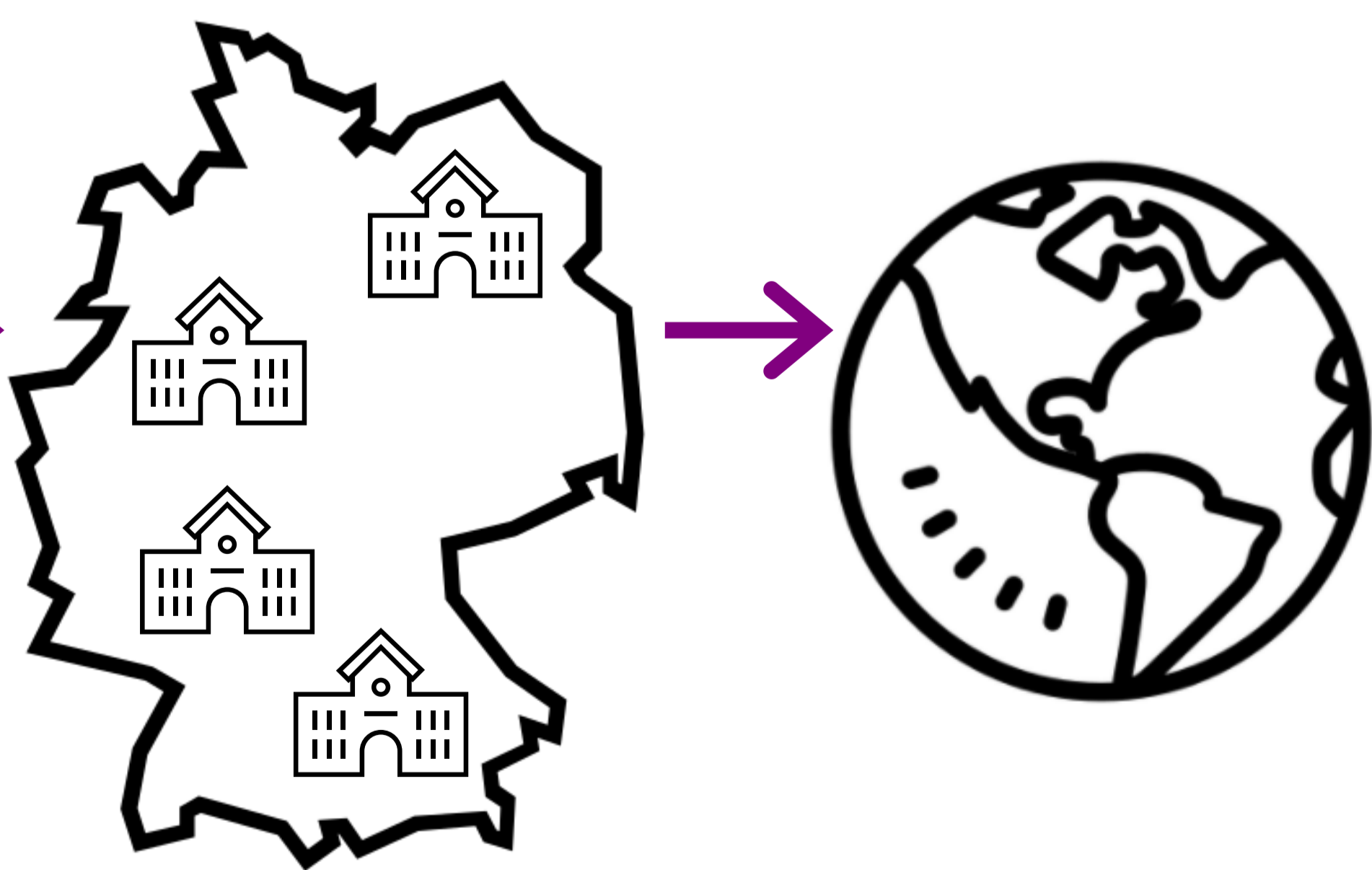
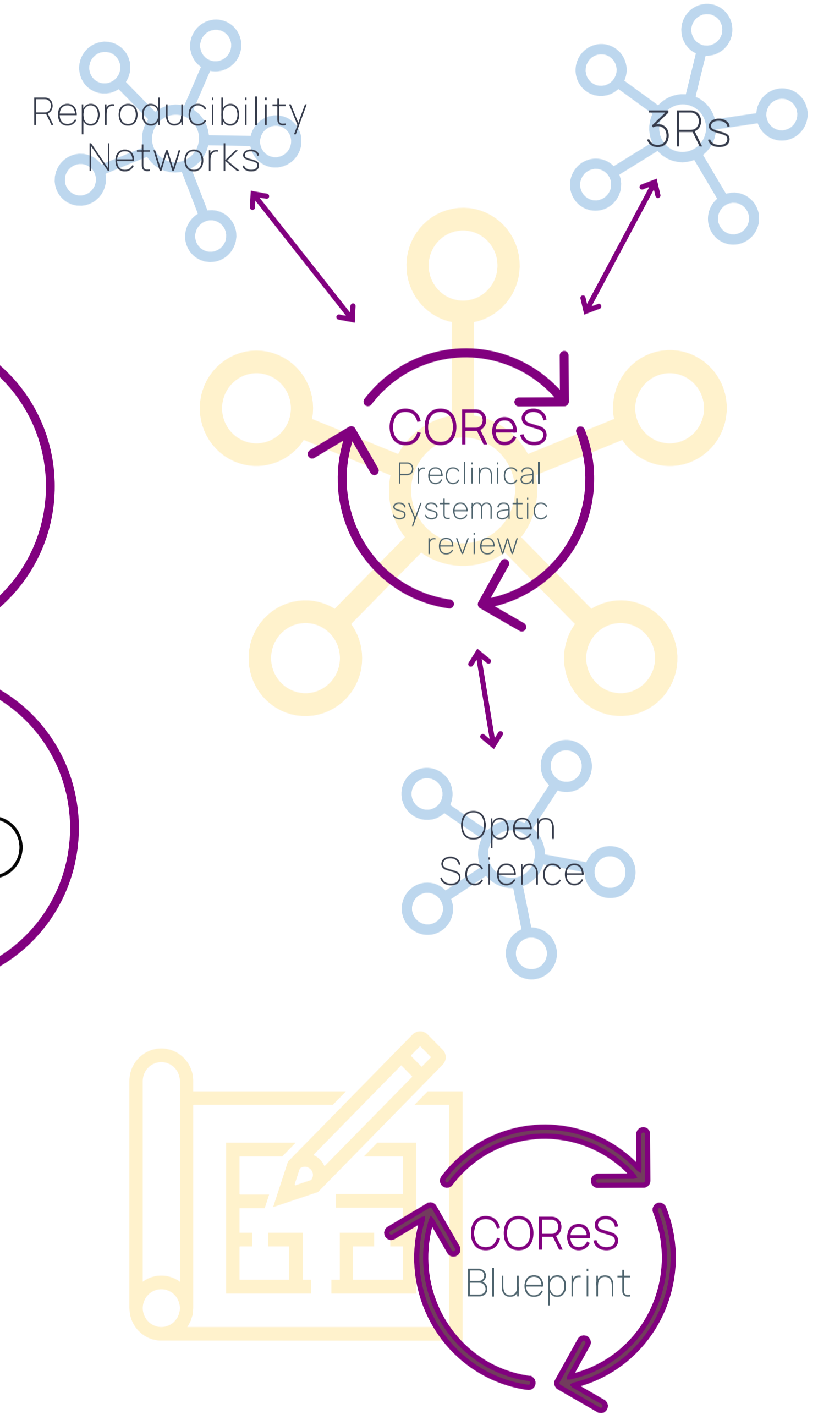
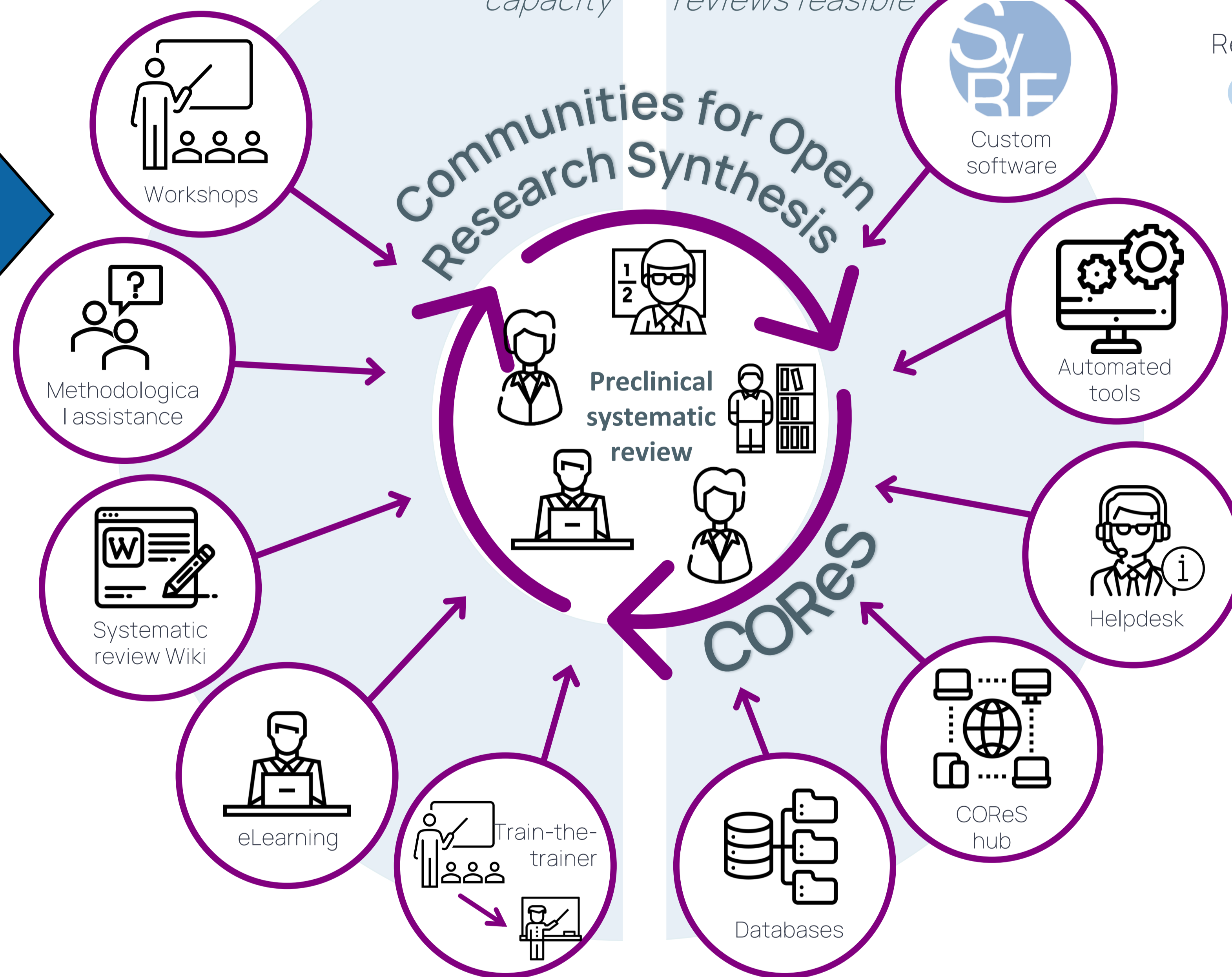
Building expertise & capacity

Making systematic reviews feasible

CAMARADES Systematic Review Facility (est. 2020)

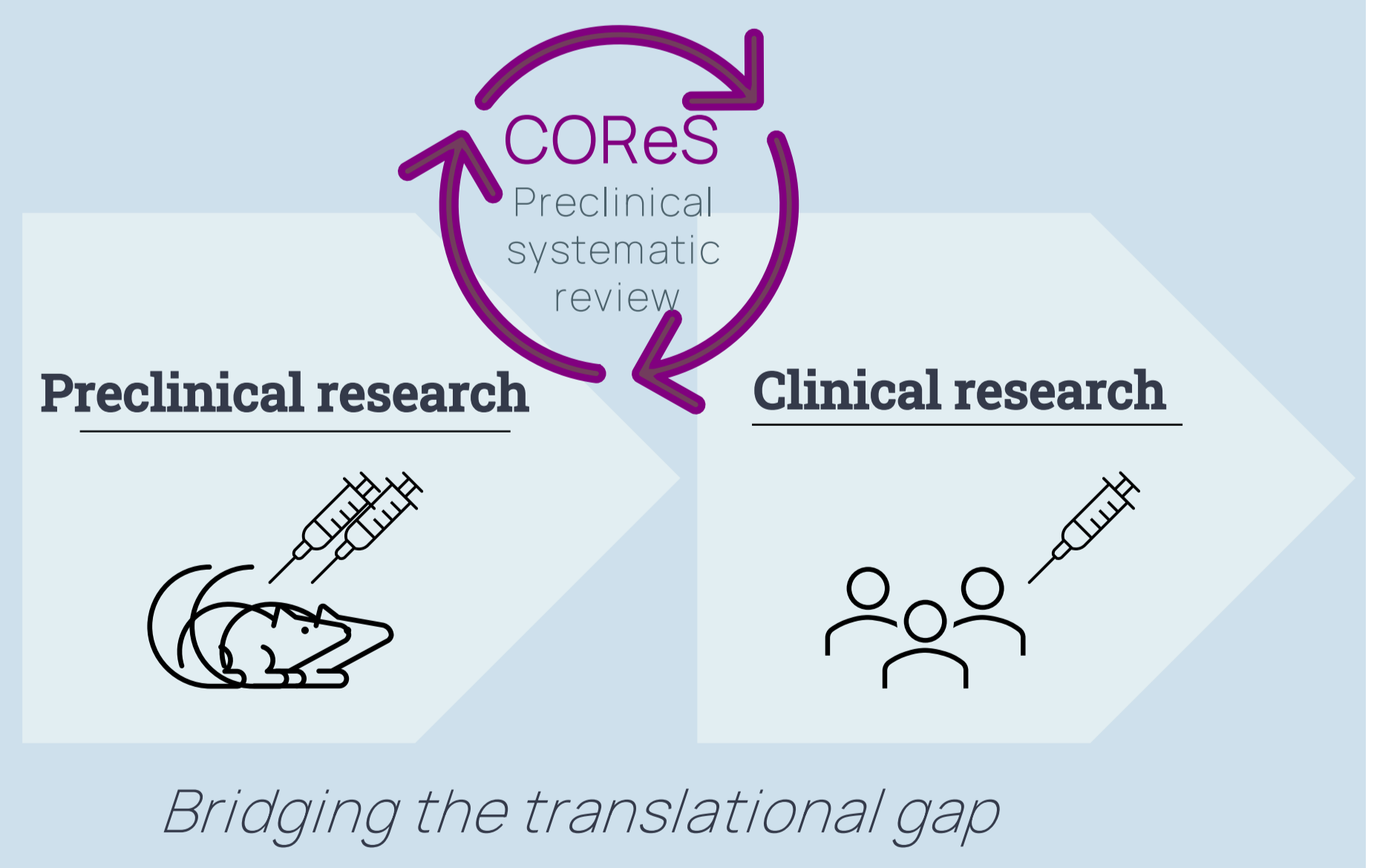


- ✓ Workshops: 3x topics
 - 380 total participants
 - 250 BIH / Charité
- ✓ 28 projects supported
 - 11 published protocols
 - 6 published reviews (2 articles, 1 preprint, 3 theses)
- ✓ 40 departments
- ✓ >2400 unique Wiki users
 - Top user locations: Germany, UK, US, Brazil, China, Netherlands & Canada



Vision:

- Preclinical research is informed by a systematic review
- Preclinical research is synthesizable
- Systematic change in how preclinical research is designed and justified, and how decisions to proceed to clinical trial are made



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