

Unlocking the Potential of Global Human Expertise

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SUSTAINABLE DEVELOPMENT GOALS

1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS





1. **Define:** Decision-making API

2. **Gather:** Solicit solutions from diverse experts

3. **Distill:** Convert solutions to a canonical form

4. **Evolve:** Recombine and refine

Realizing Human Expertise with AI (**RHEA**)

PANDEMIC RESPONSE CHALLENGE

PHASE | Awarded



XPRIZE
PANDEMIC RESPONSE
CHALLENGE

Cognizant

OVERVIEW

ACTIVITY

SPONSORS &
PARTNERS

GUIDELINES

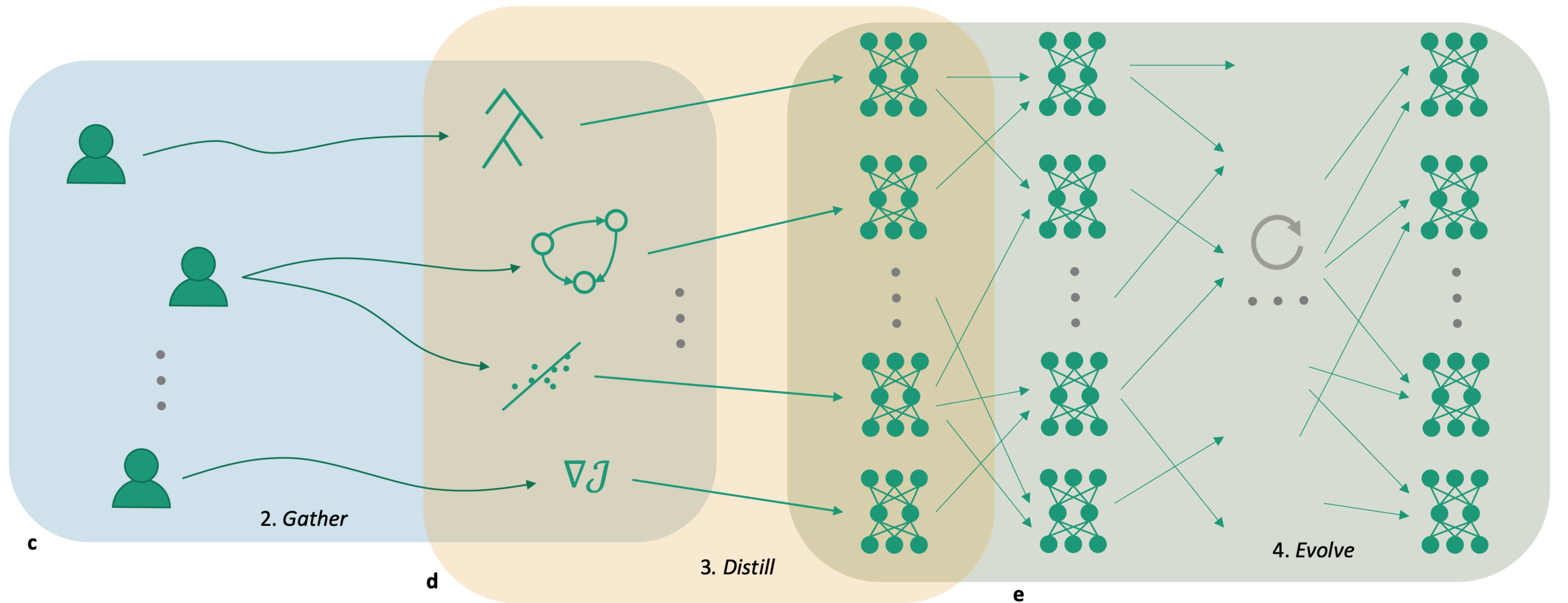
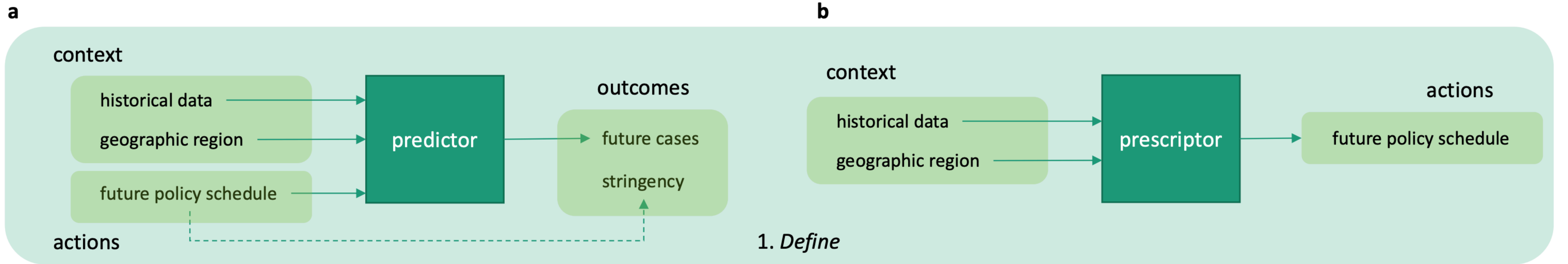
RESOURCES

WINNERS &
RESULTS

PANDEMIC
RESPONSE
CHALLENGE

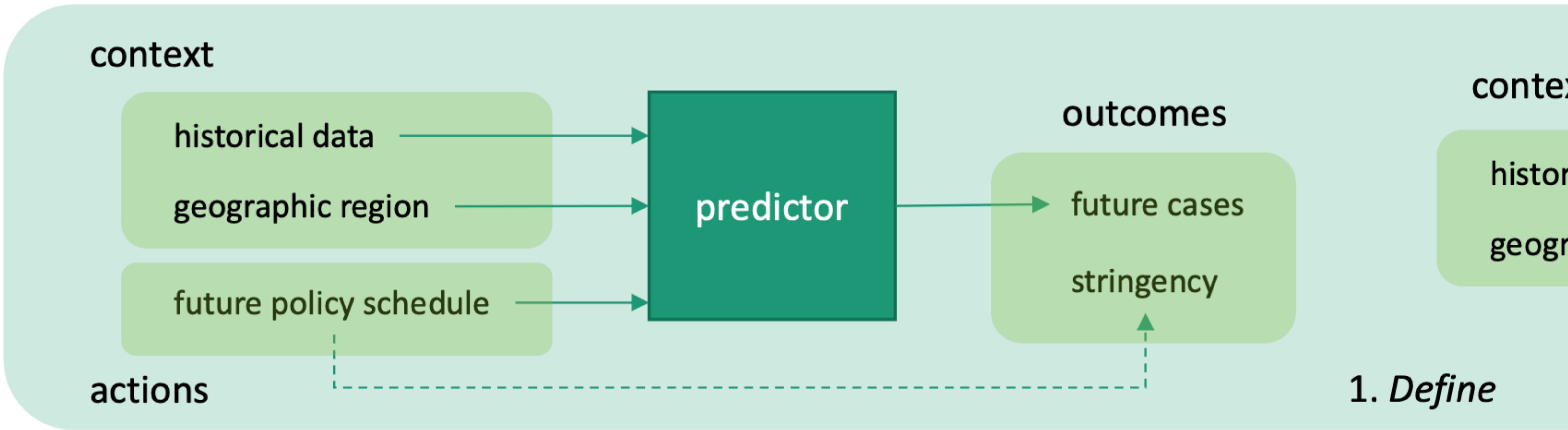
\$500K

Prize Purse

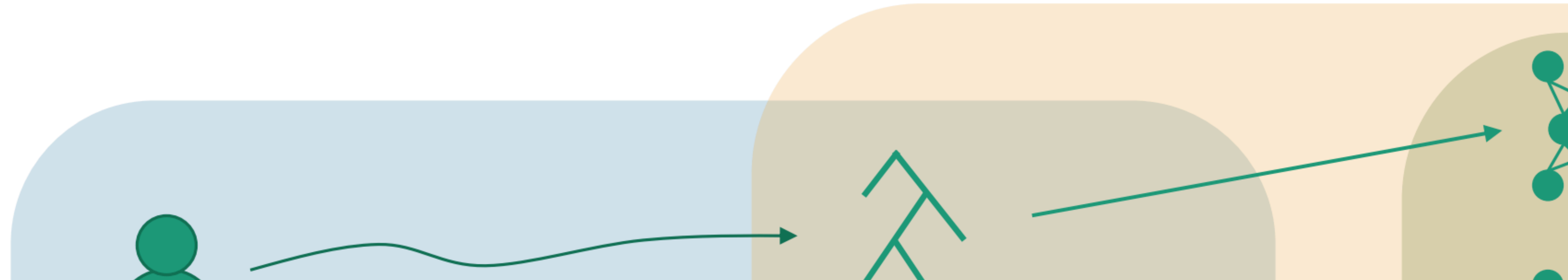


XPRIZE Pandemic Response Challenge

a

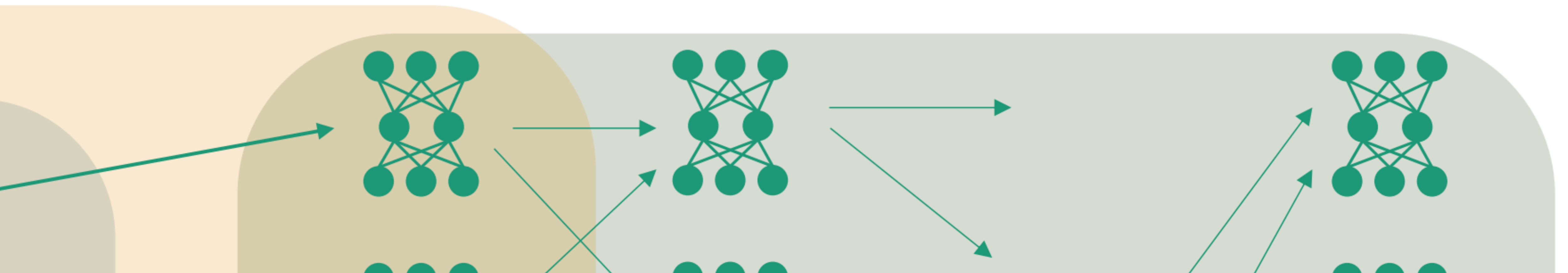
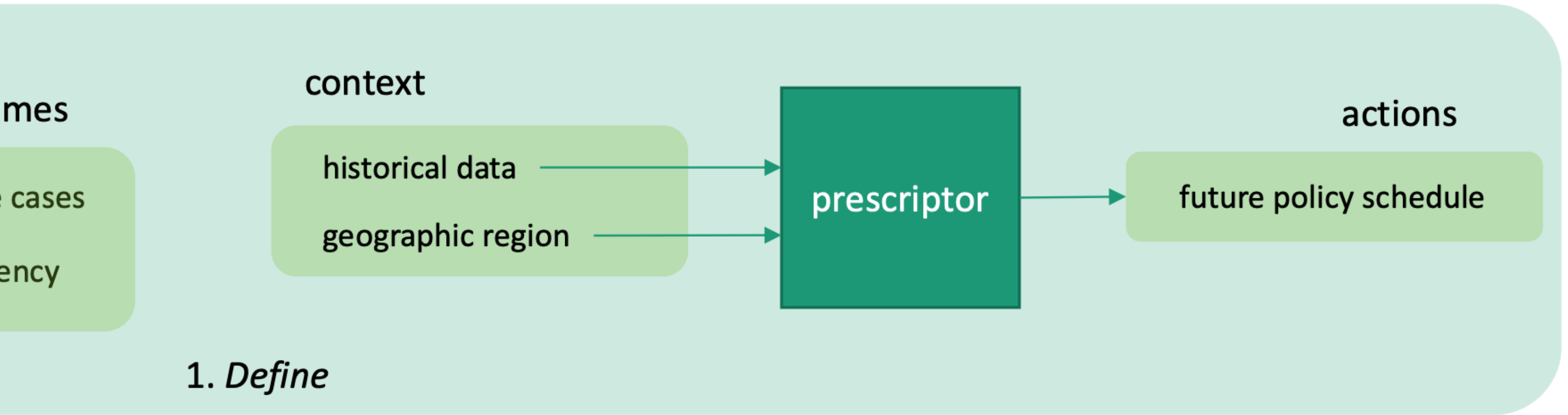


b

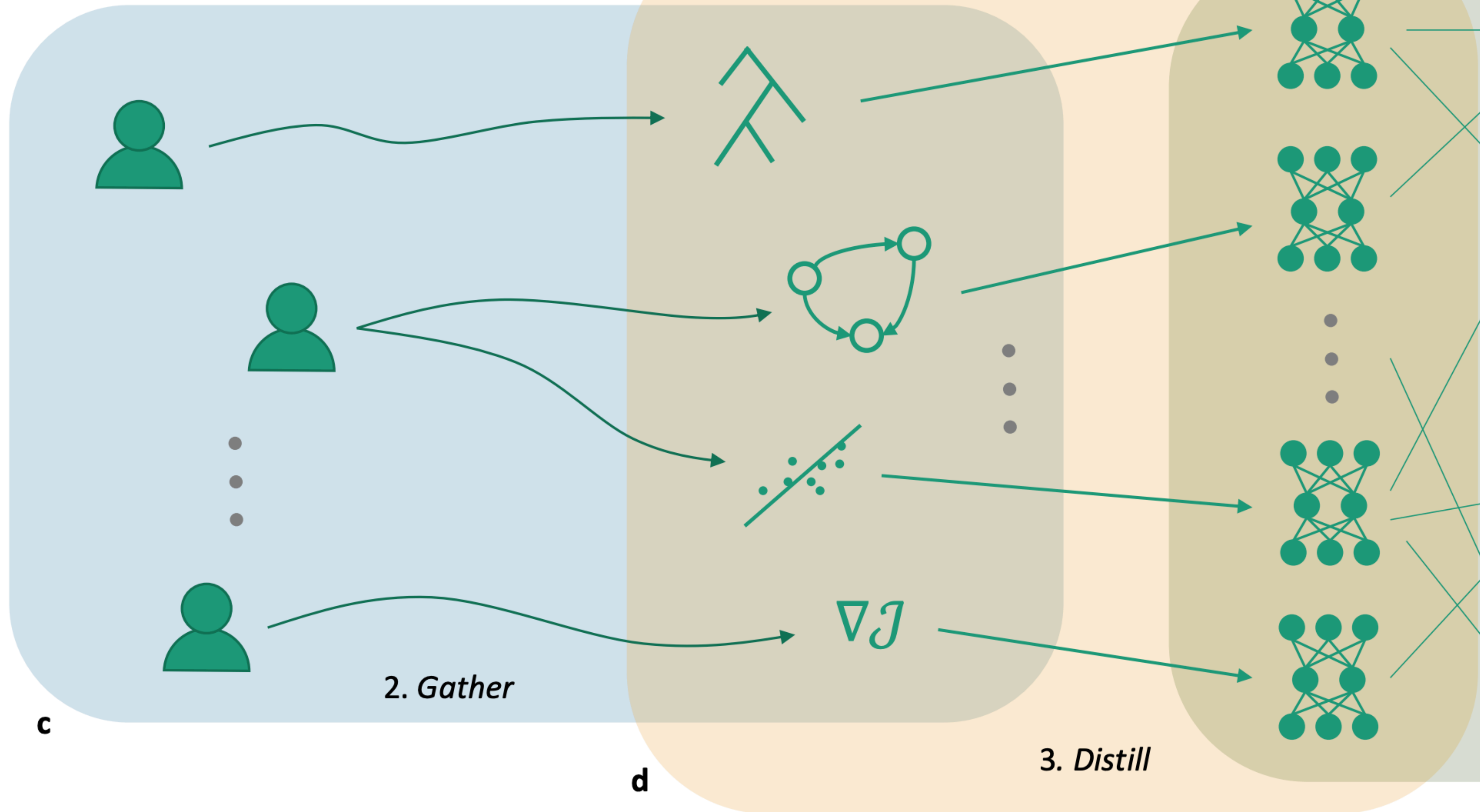


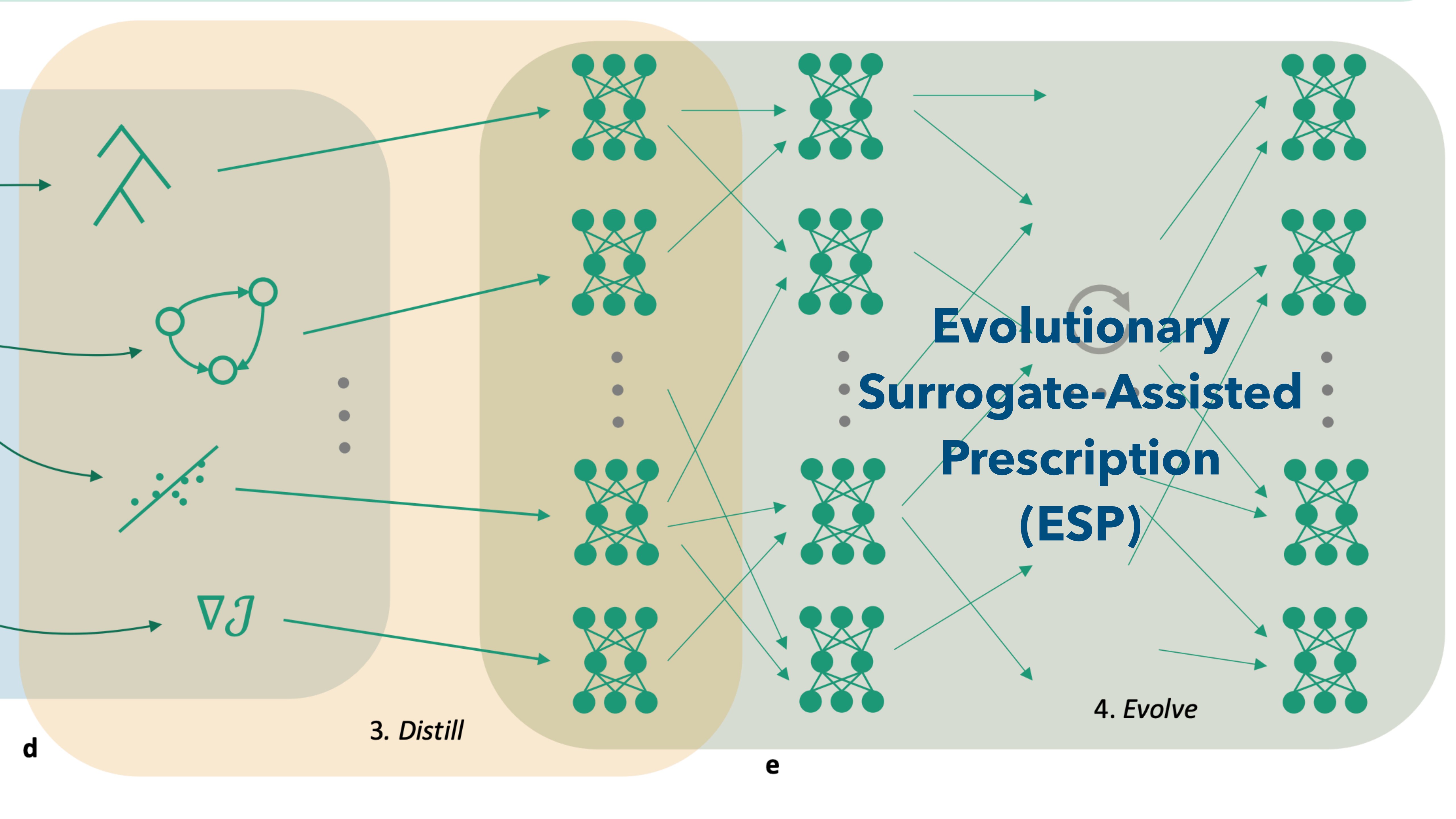
XPRIZE Pandemic Response Challenge

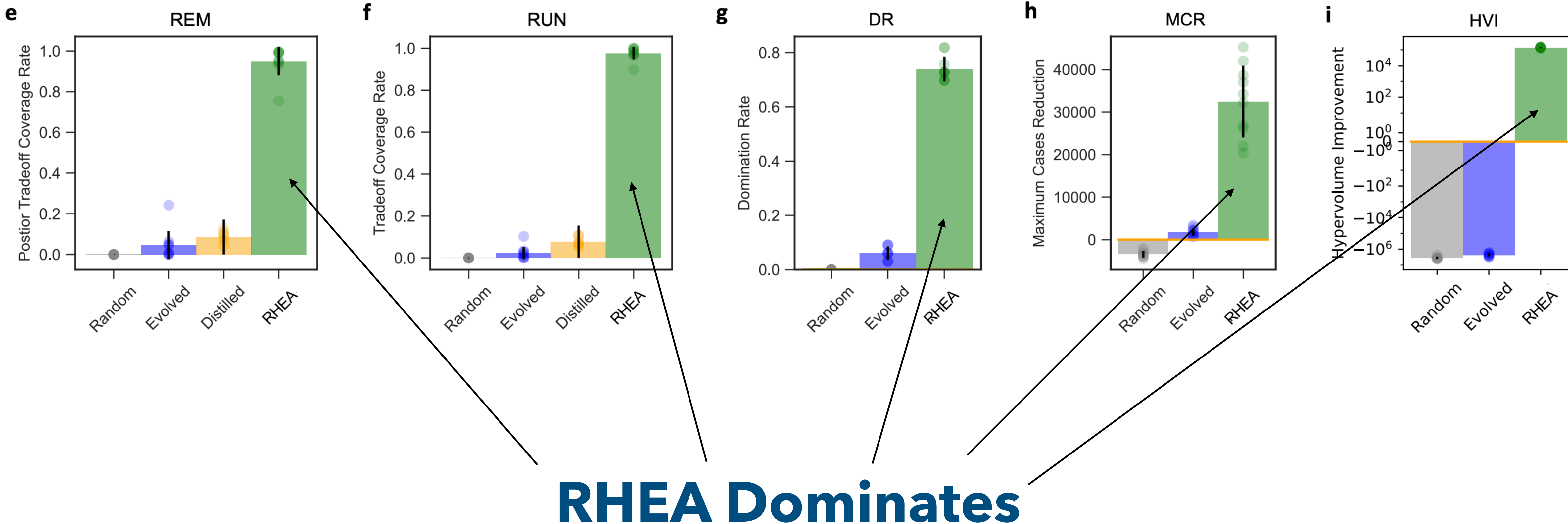
b



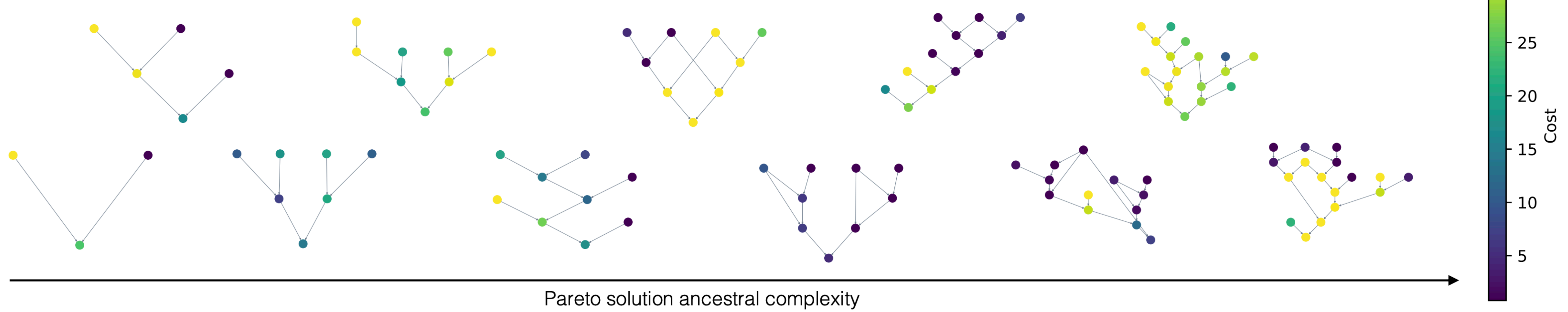
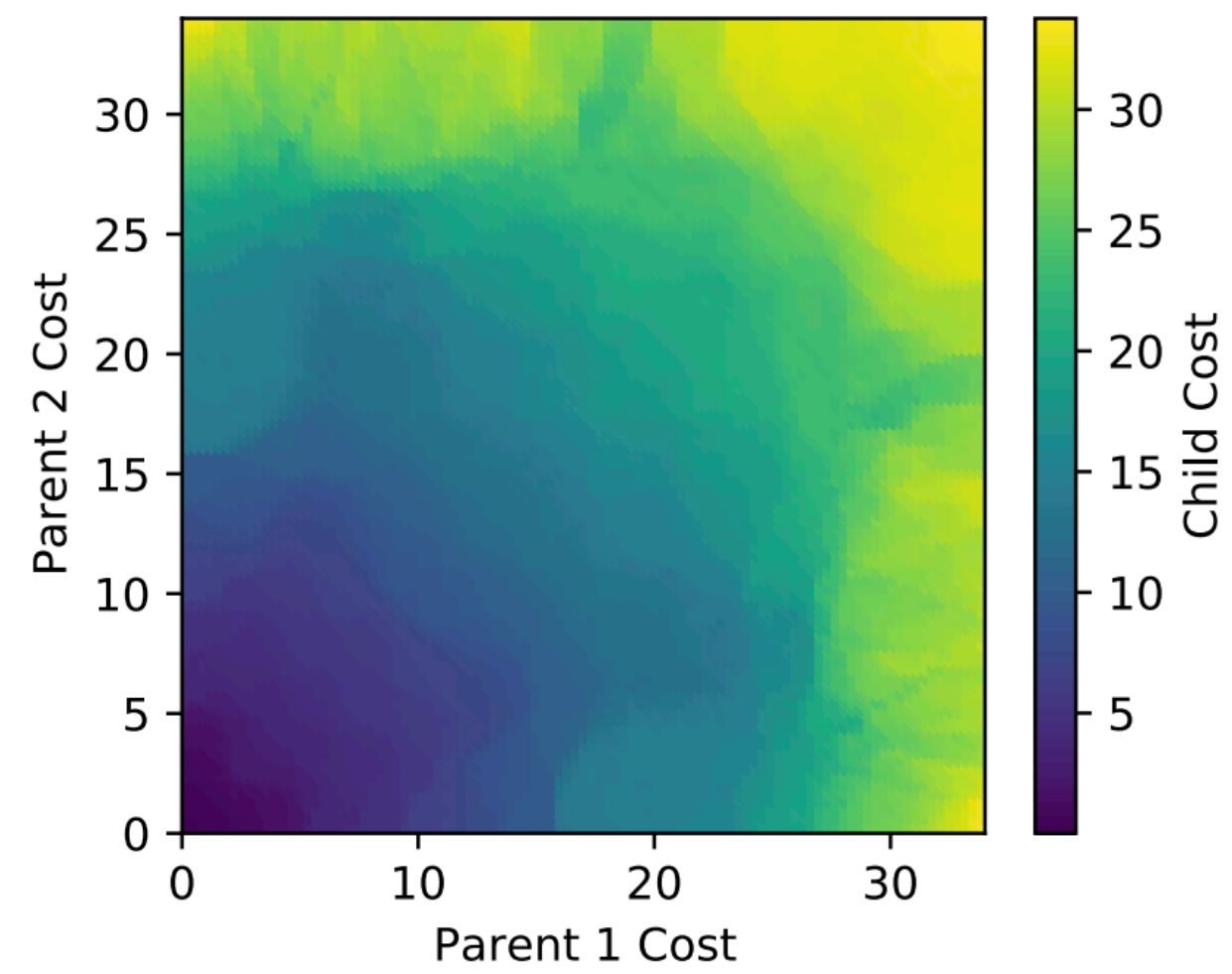
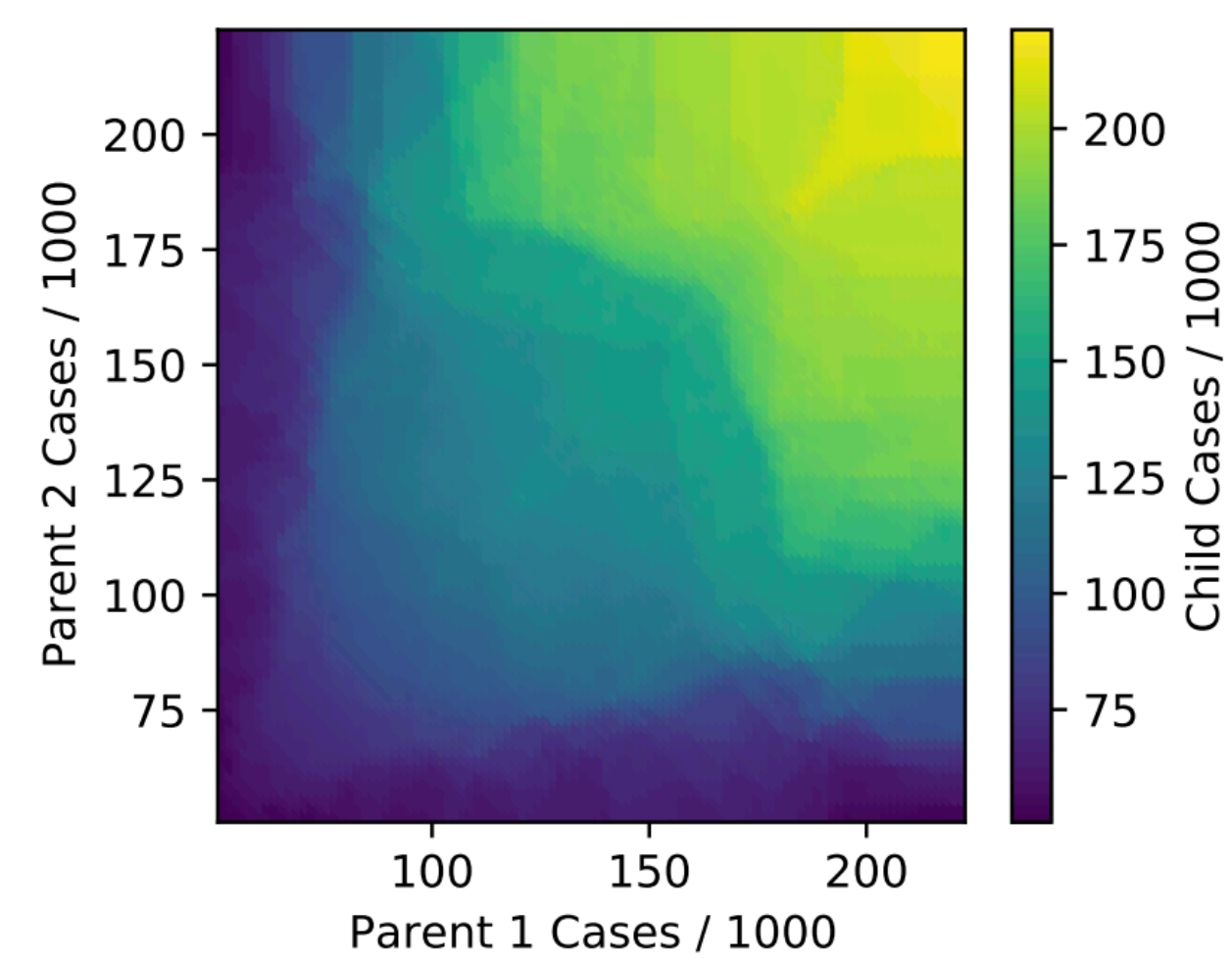
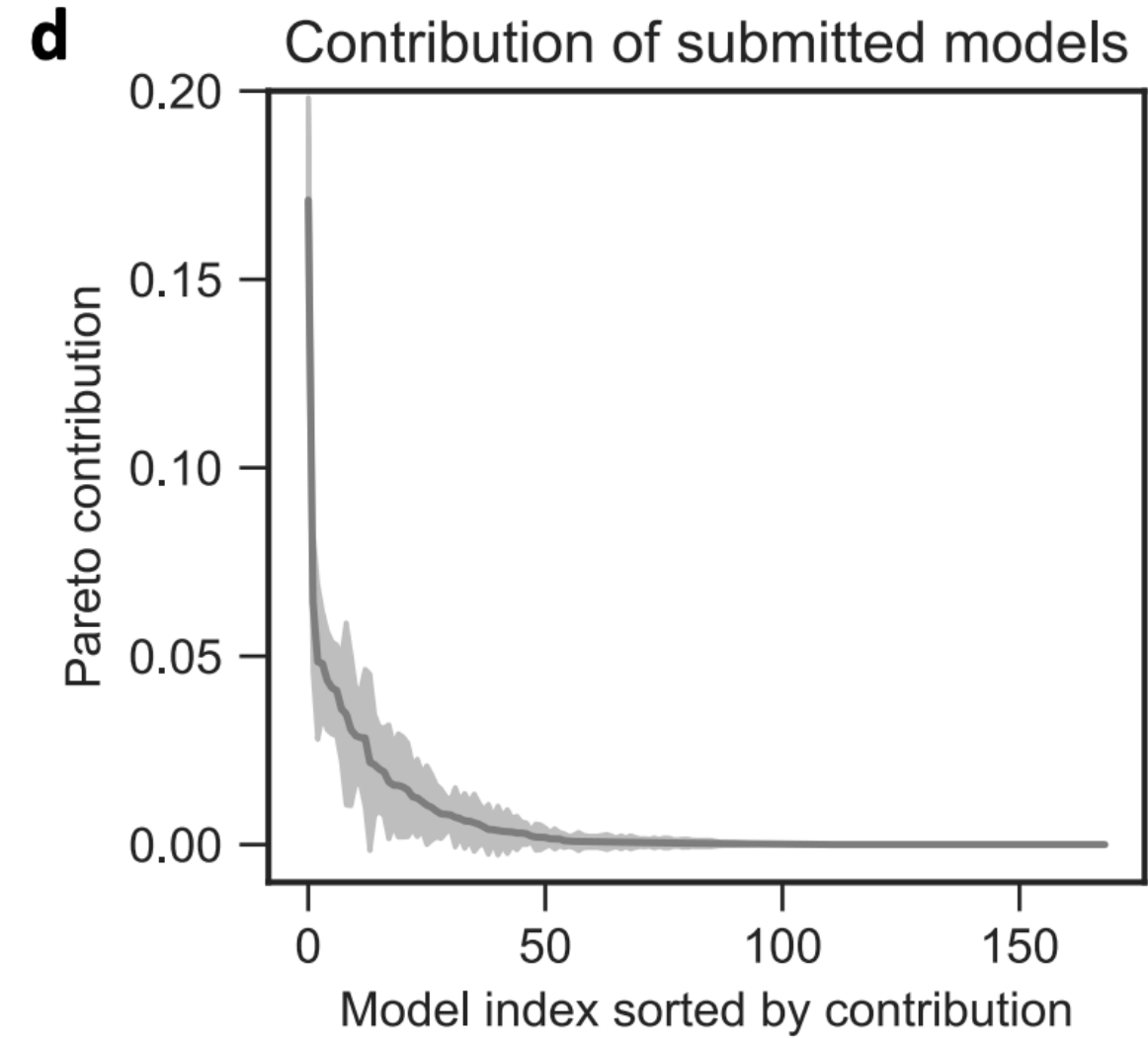
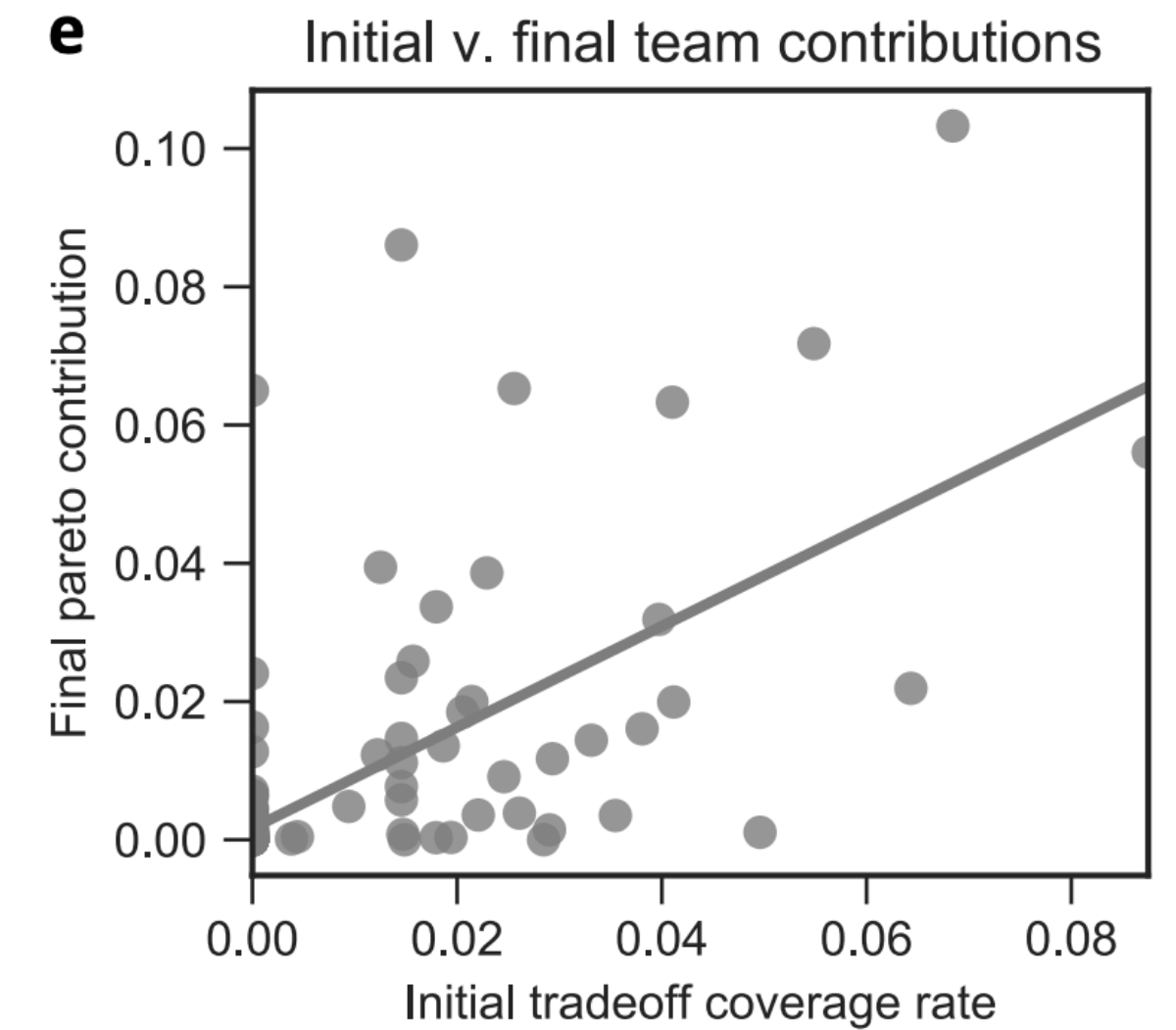
169 Submissions, 23 Countries

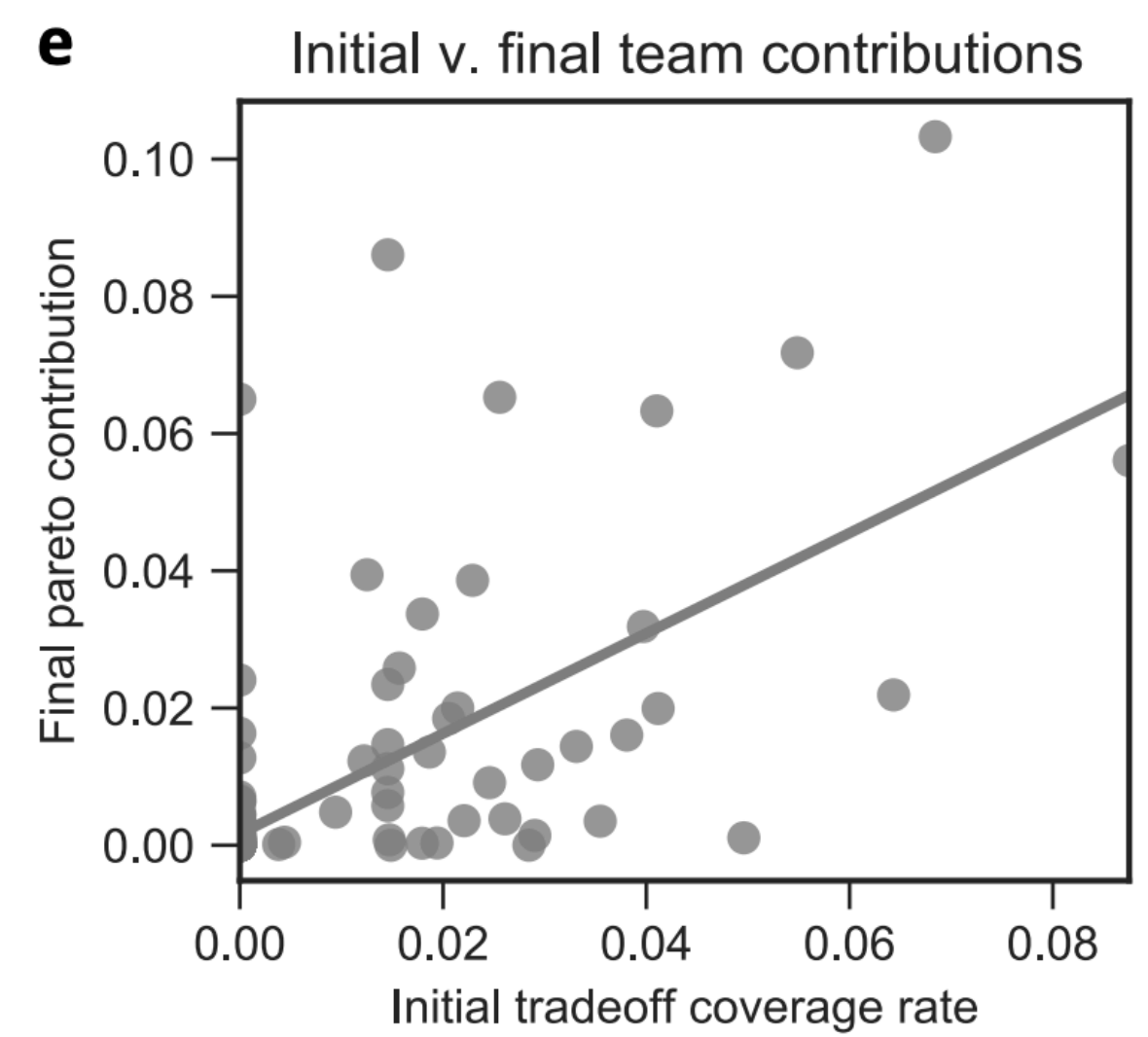
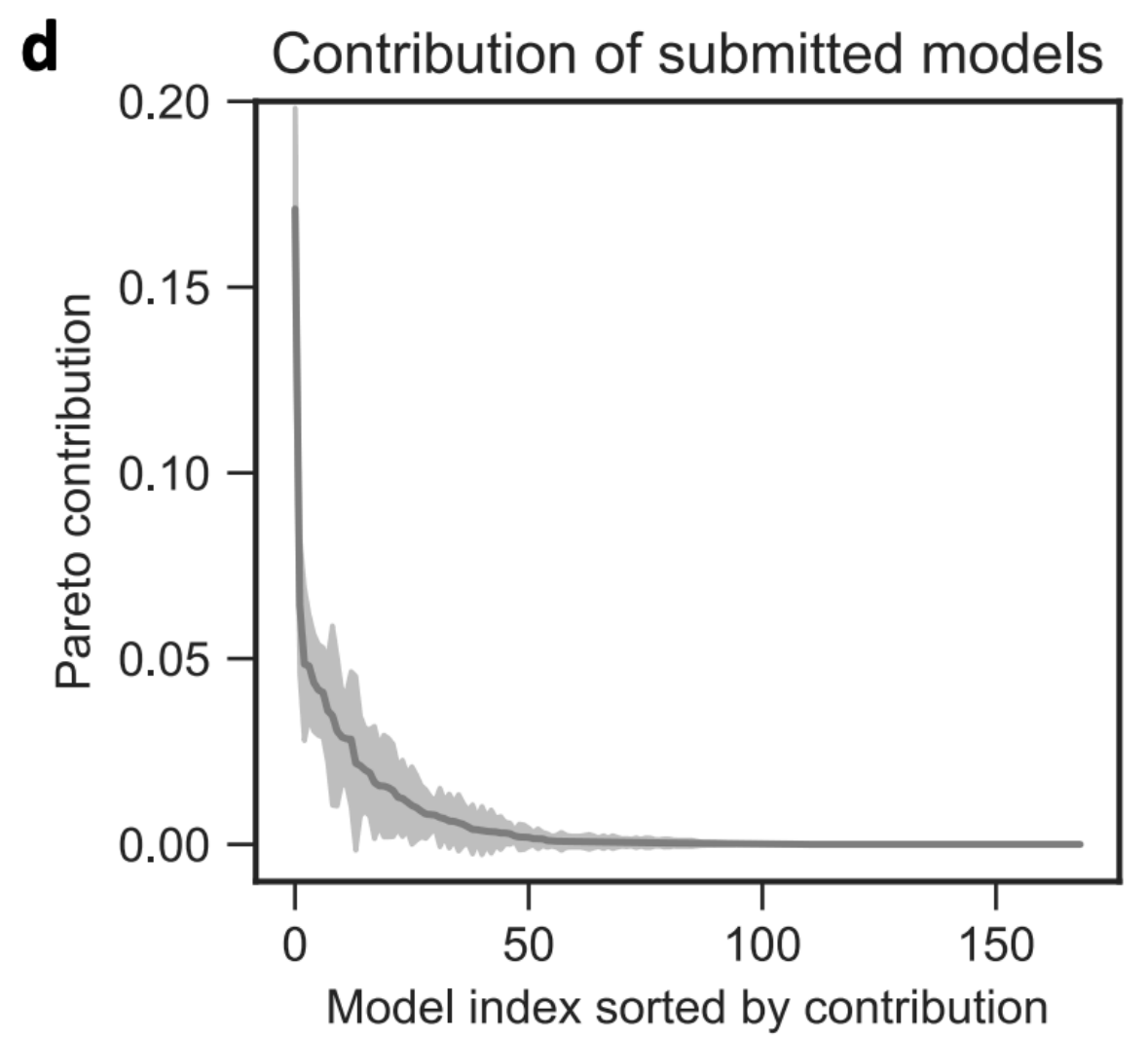
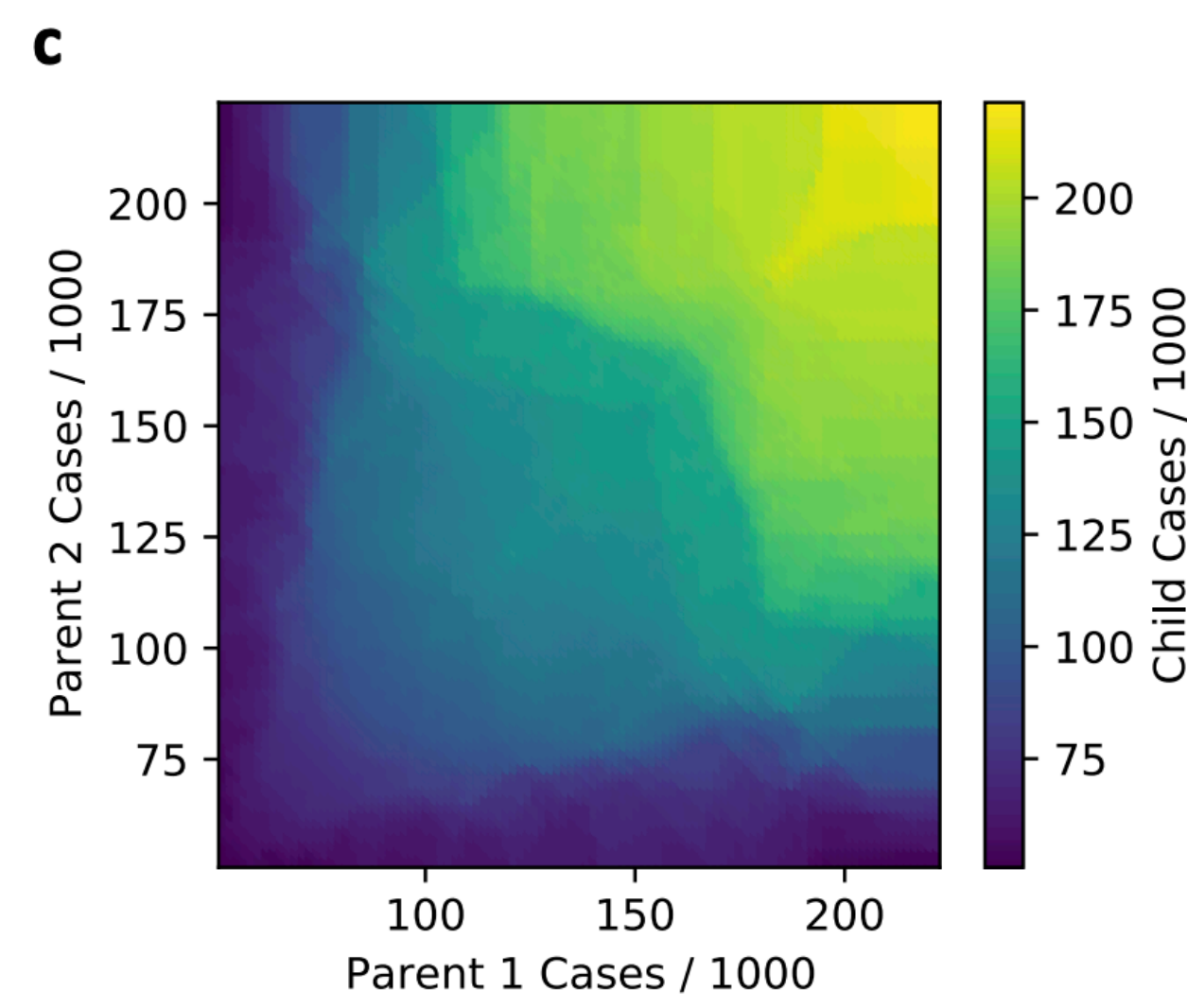
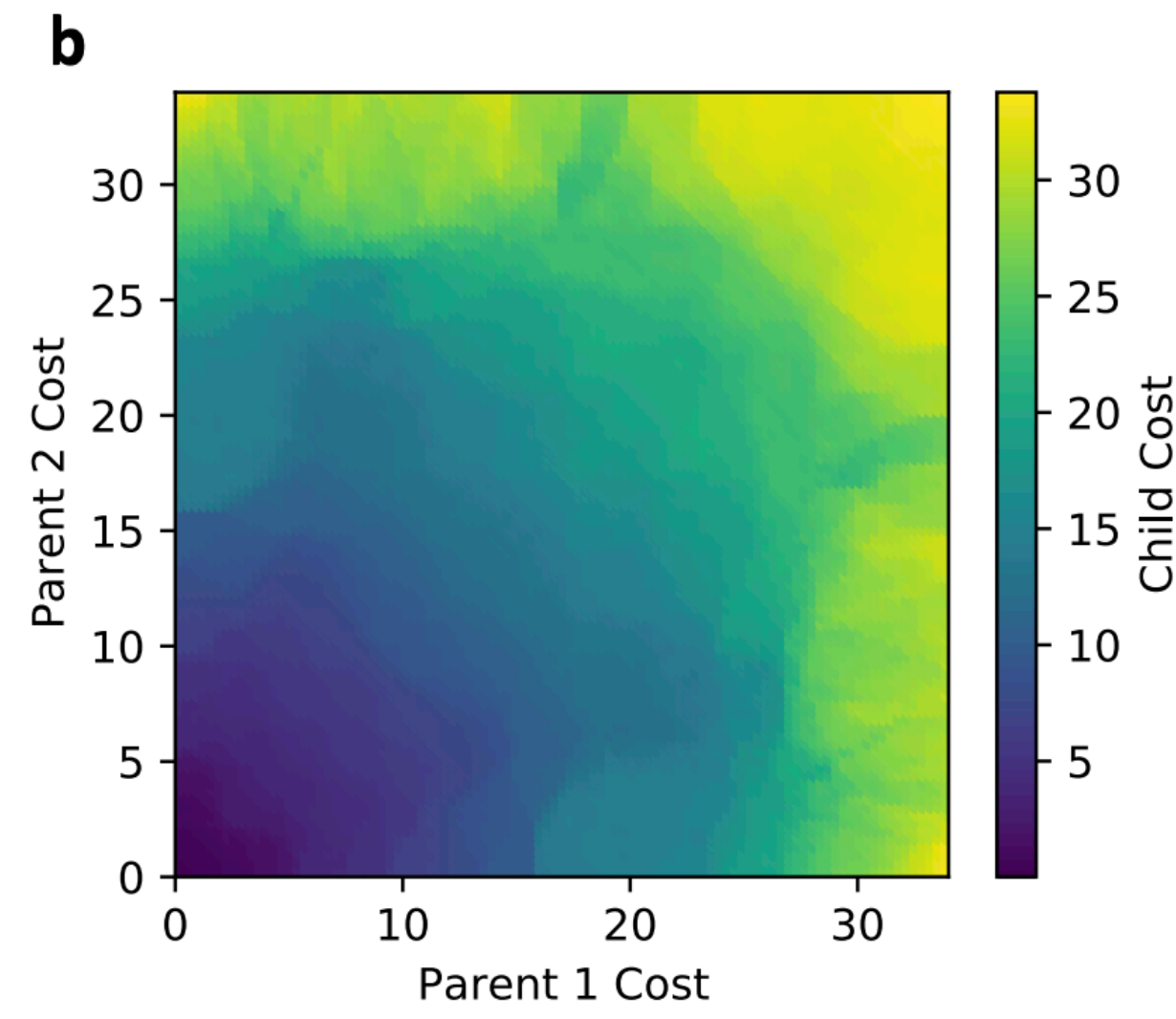
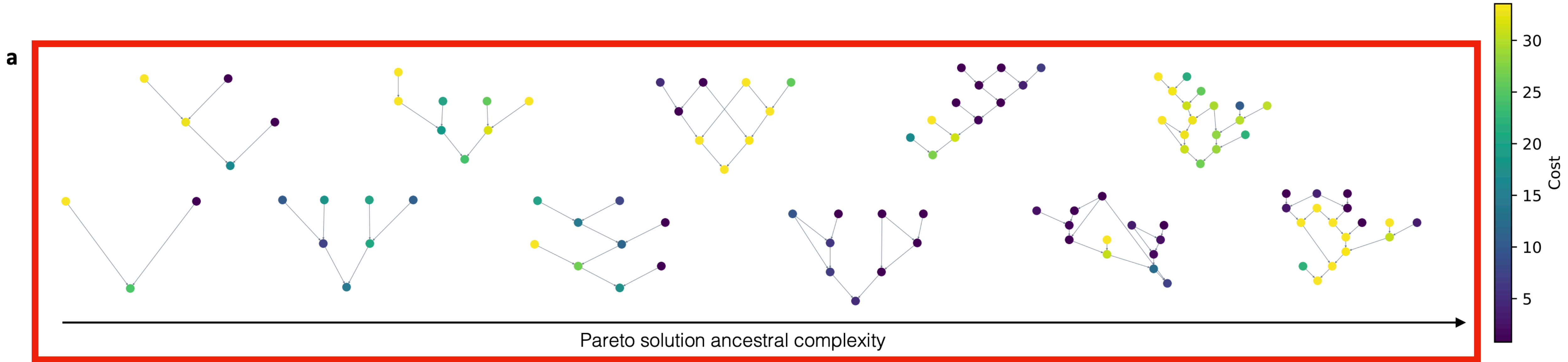




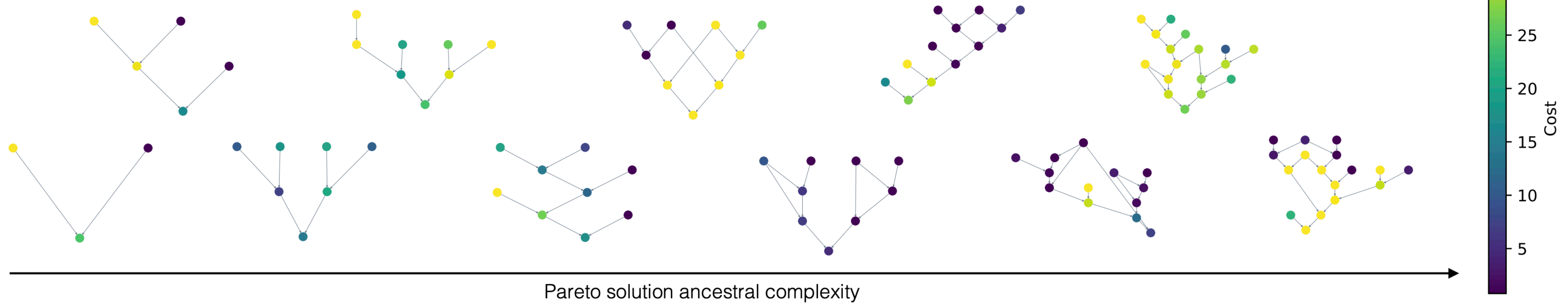
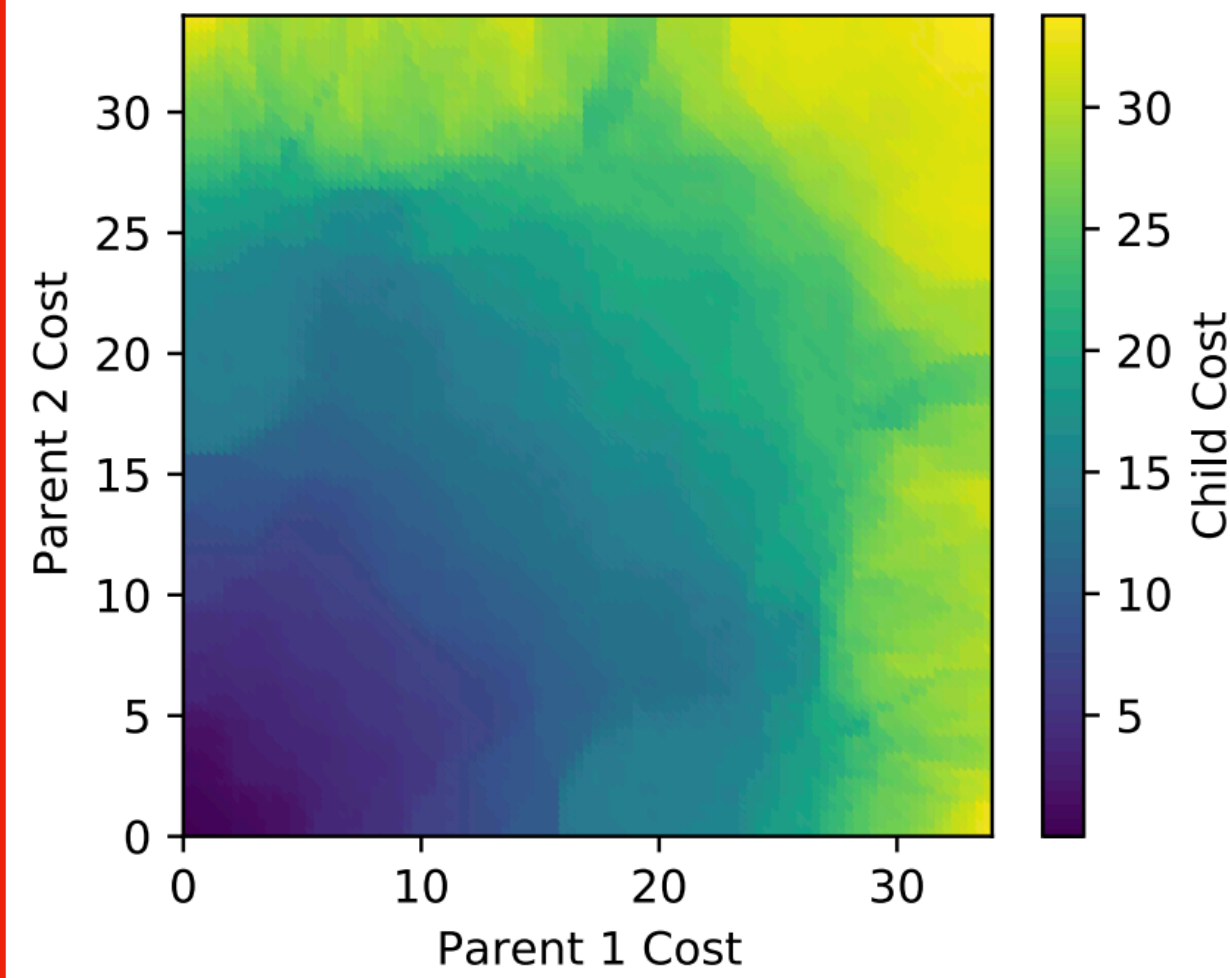
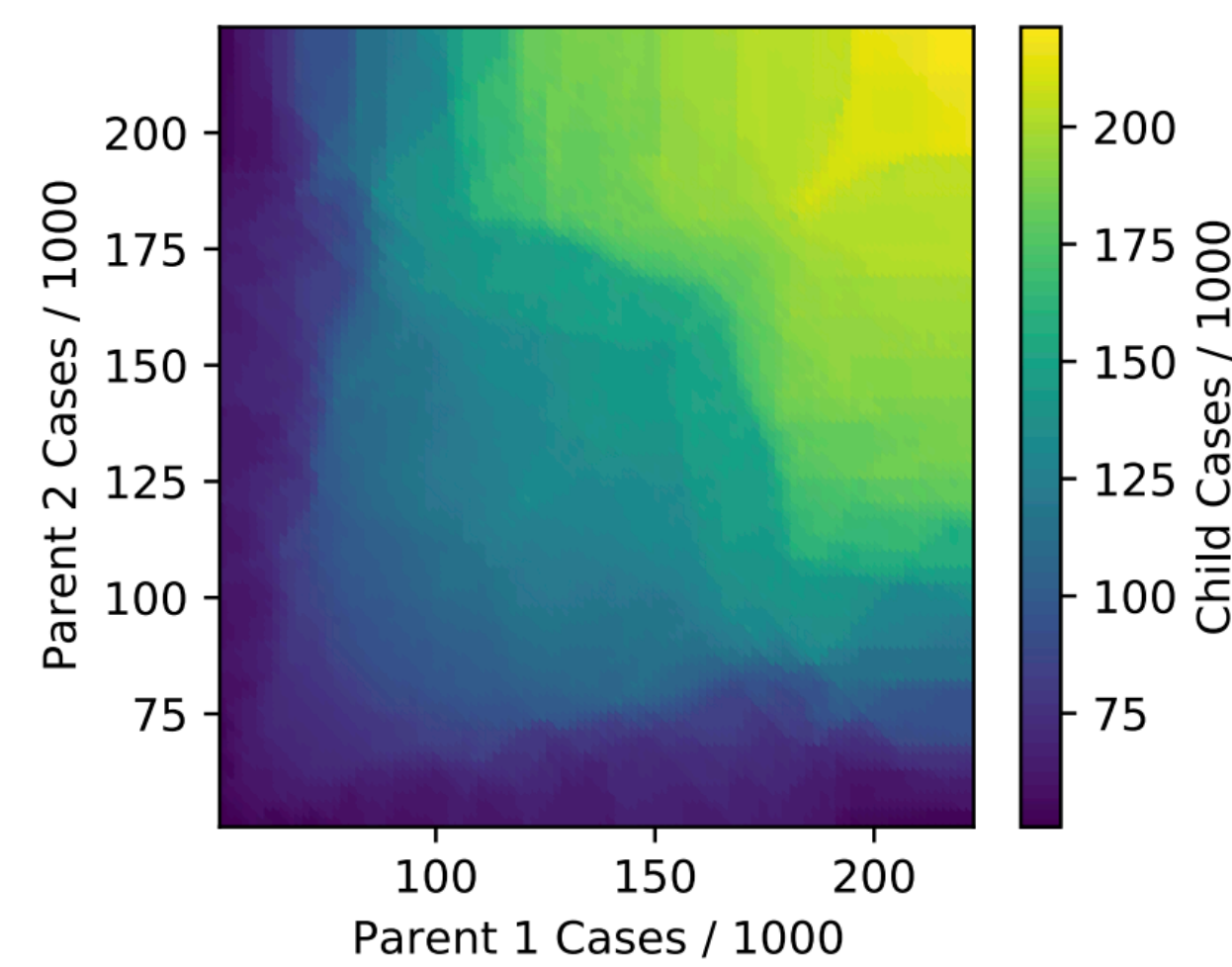
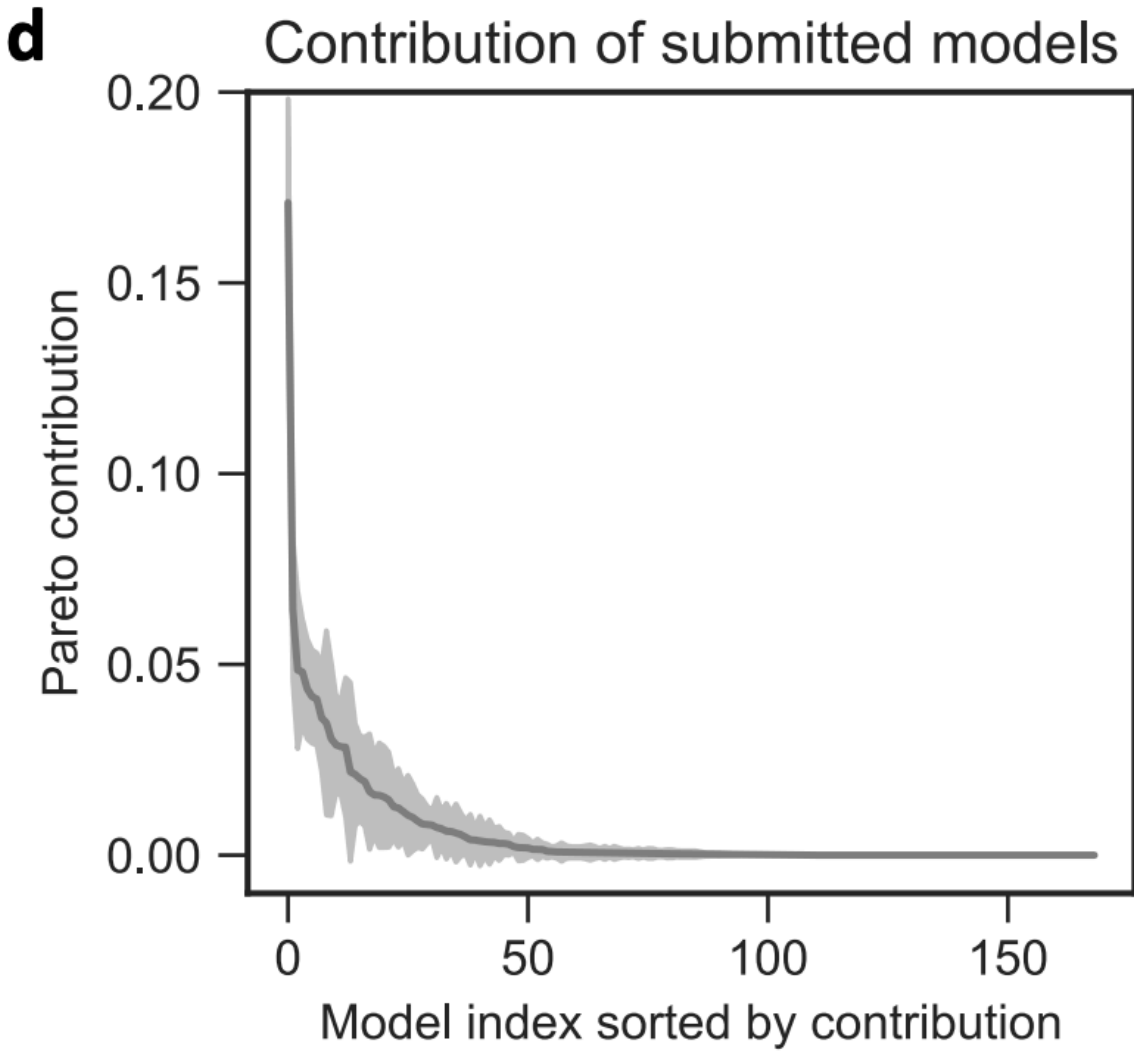
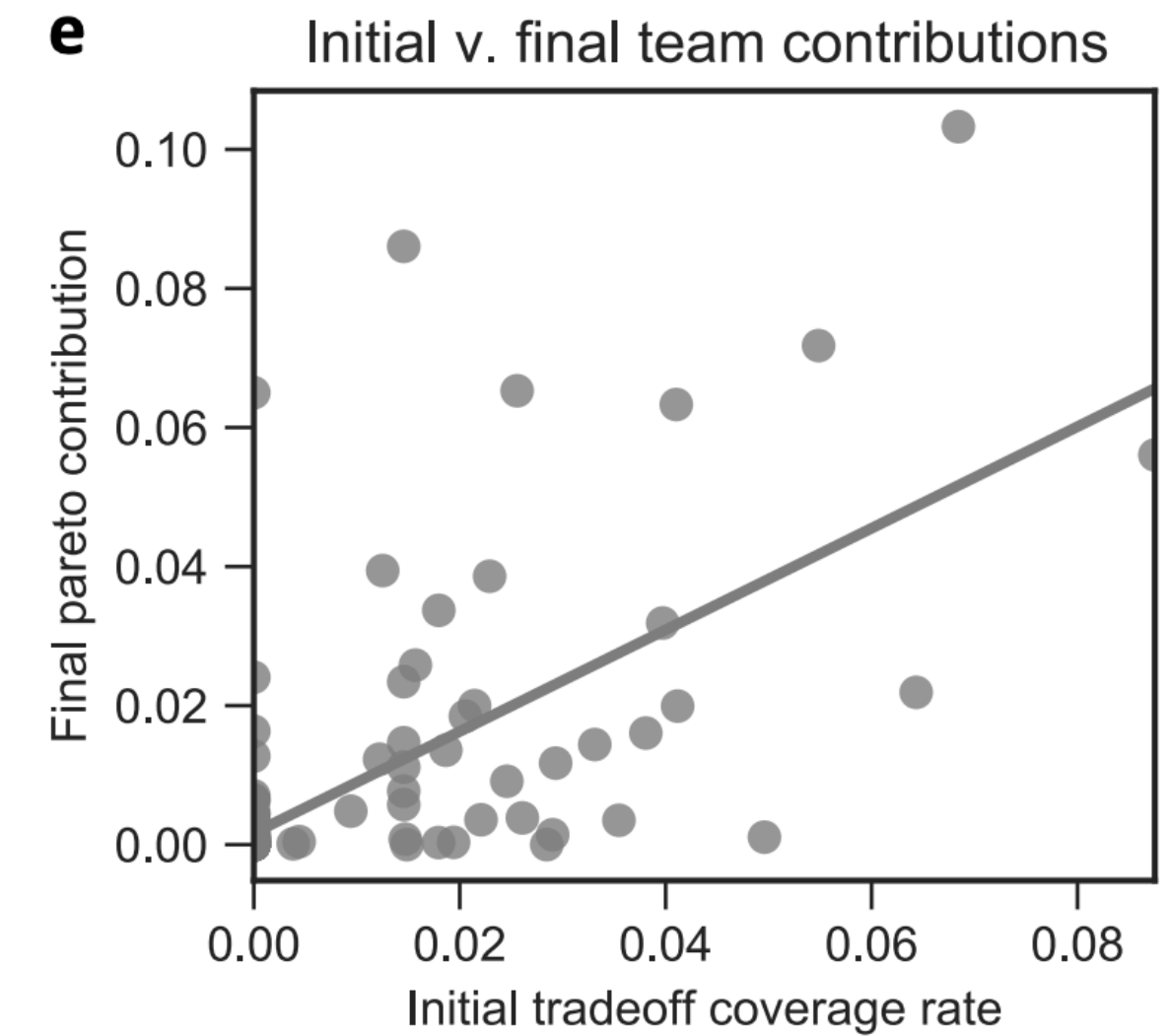


See paper for theoretical and empirical comparisons to Ensembling, Mixture-of-Experts, Multi-objective RL

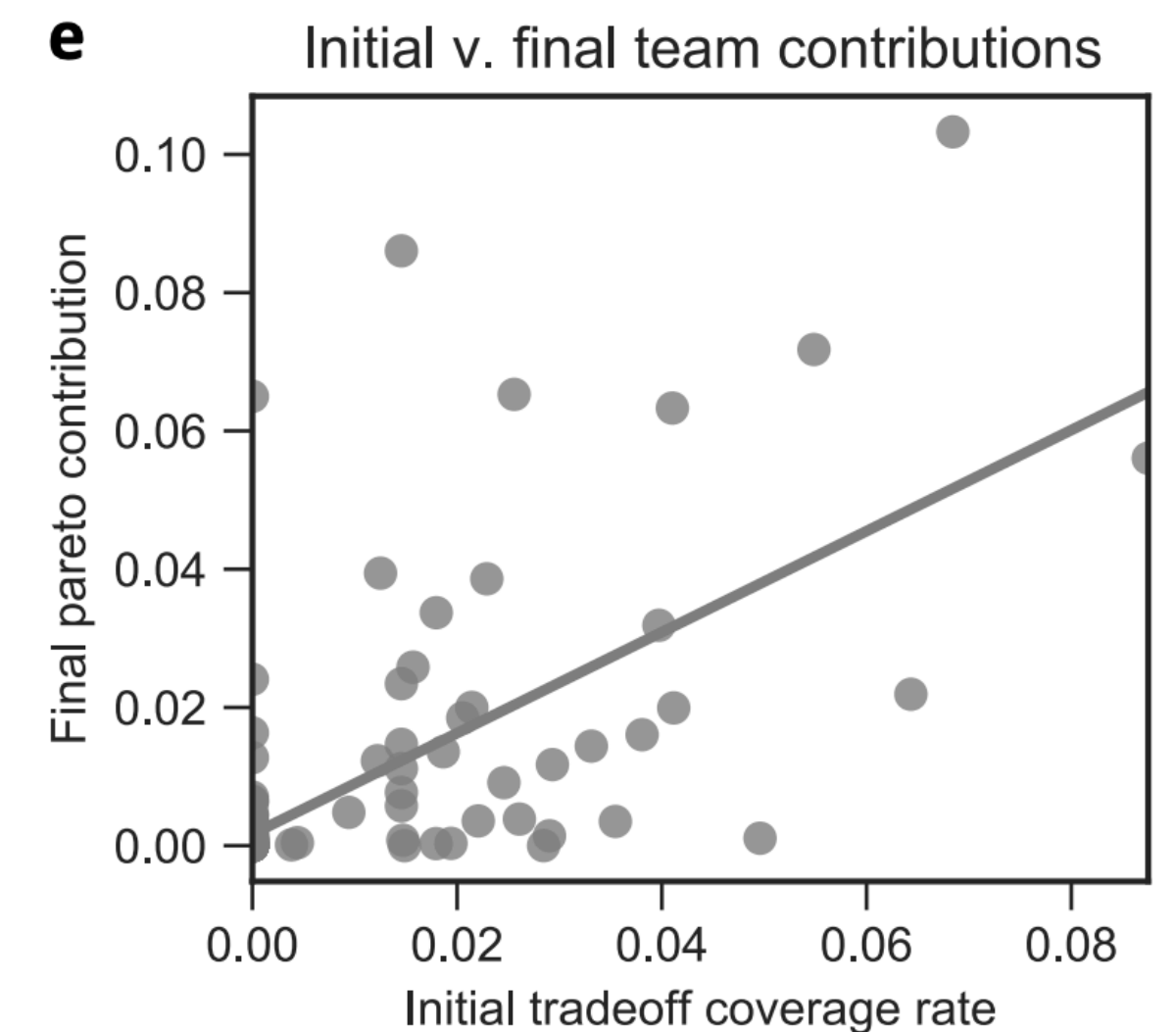
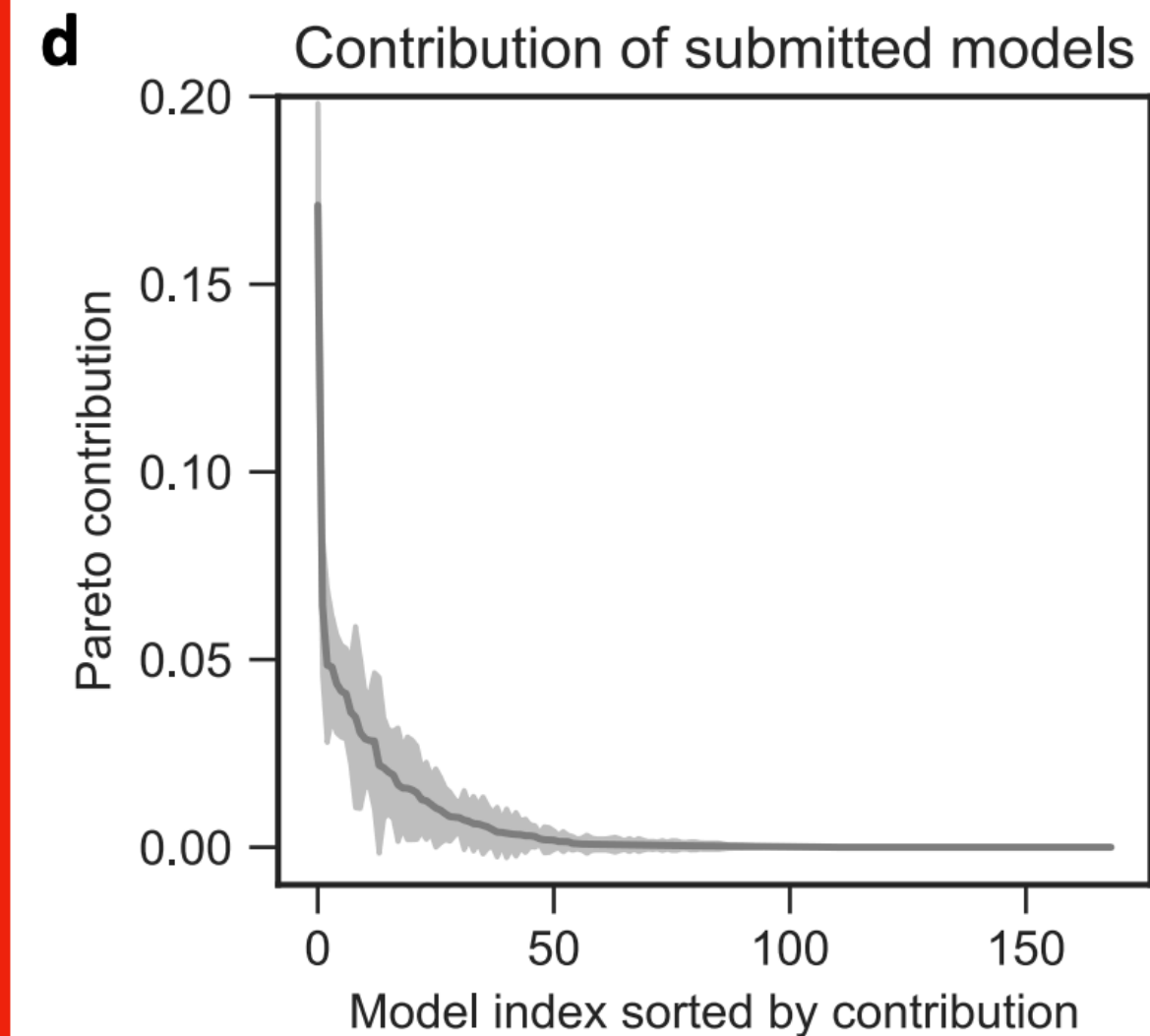
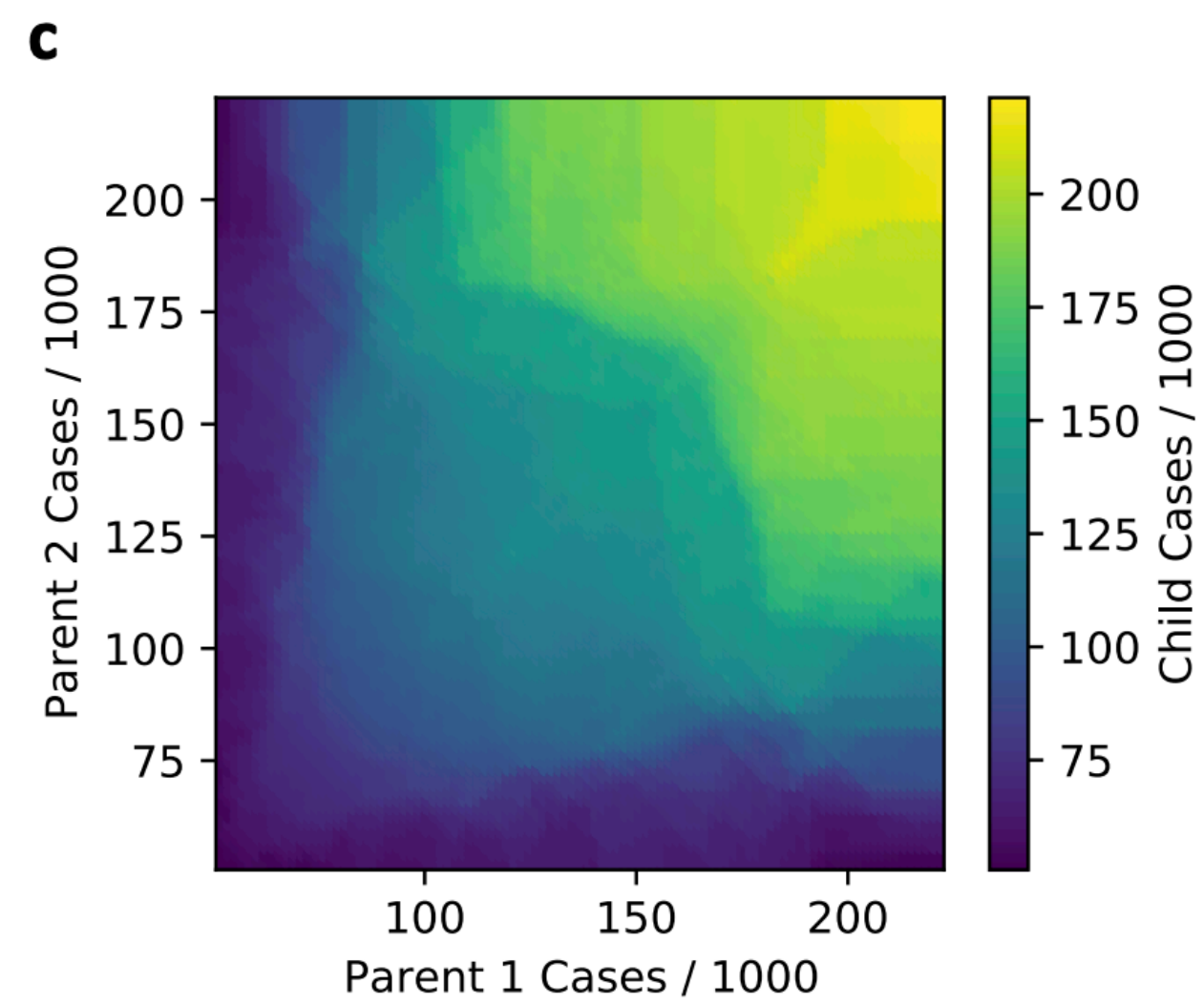
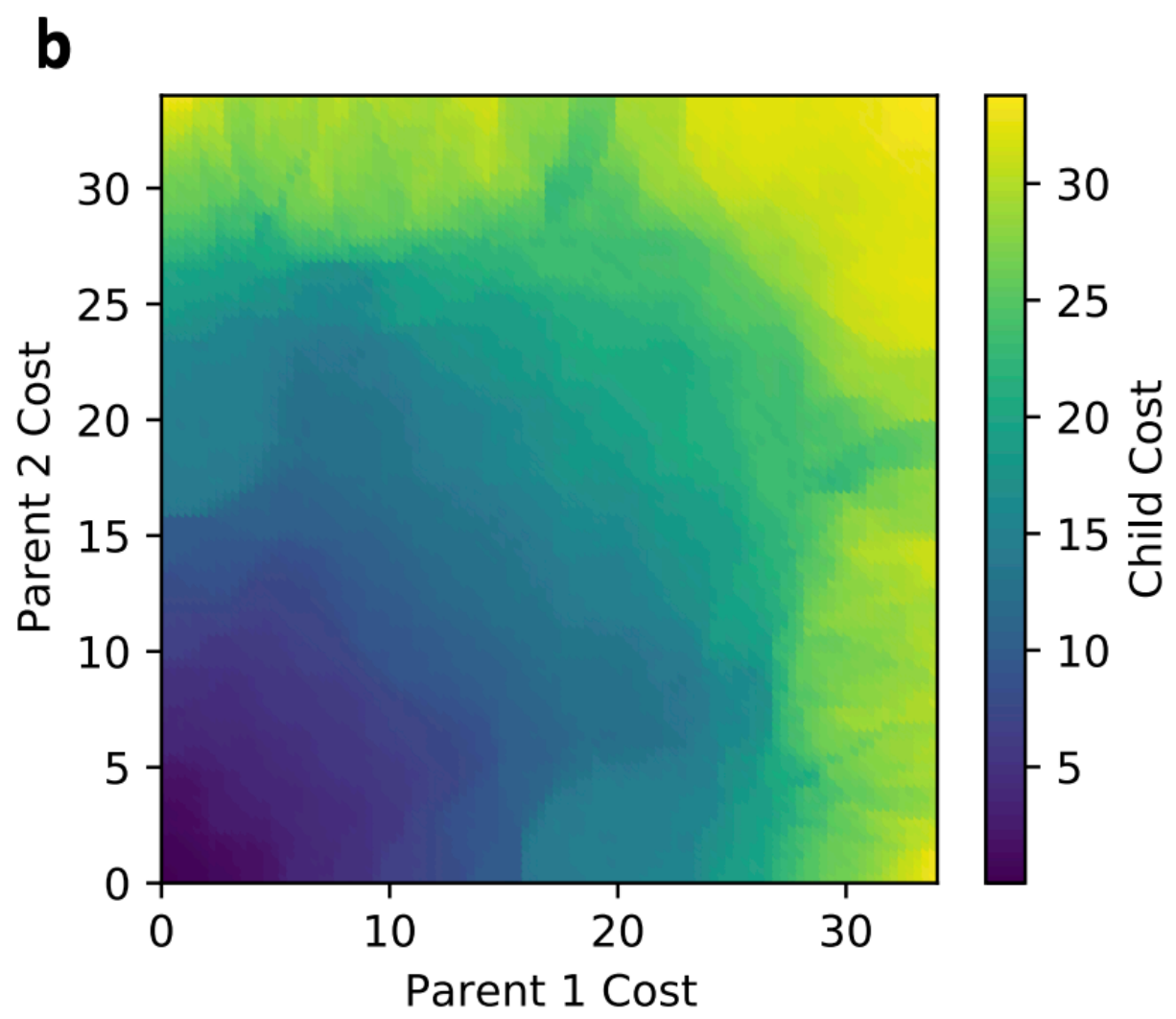
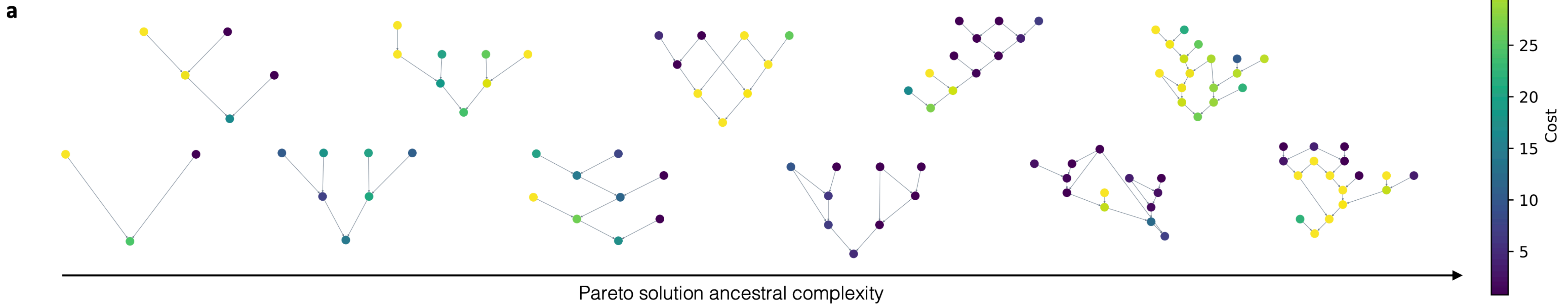
a**b****c****d****e**



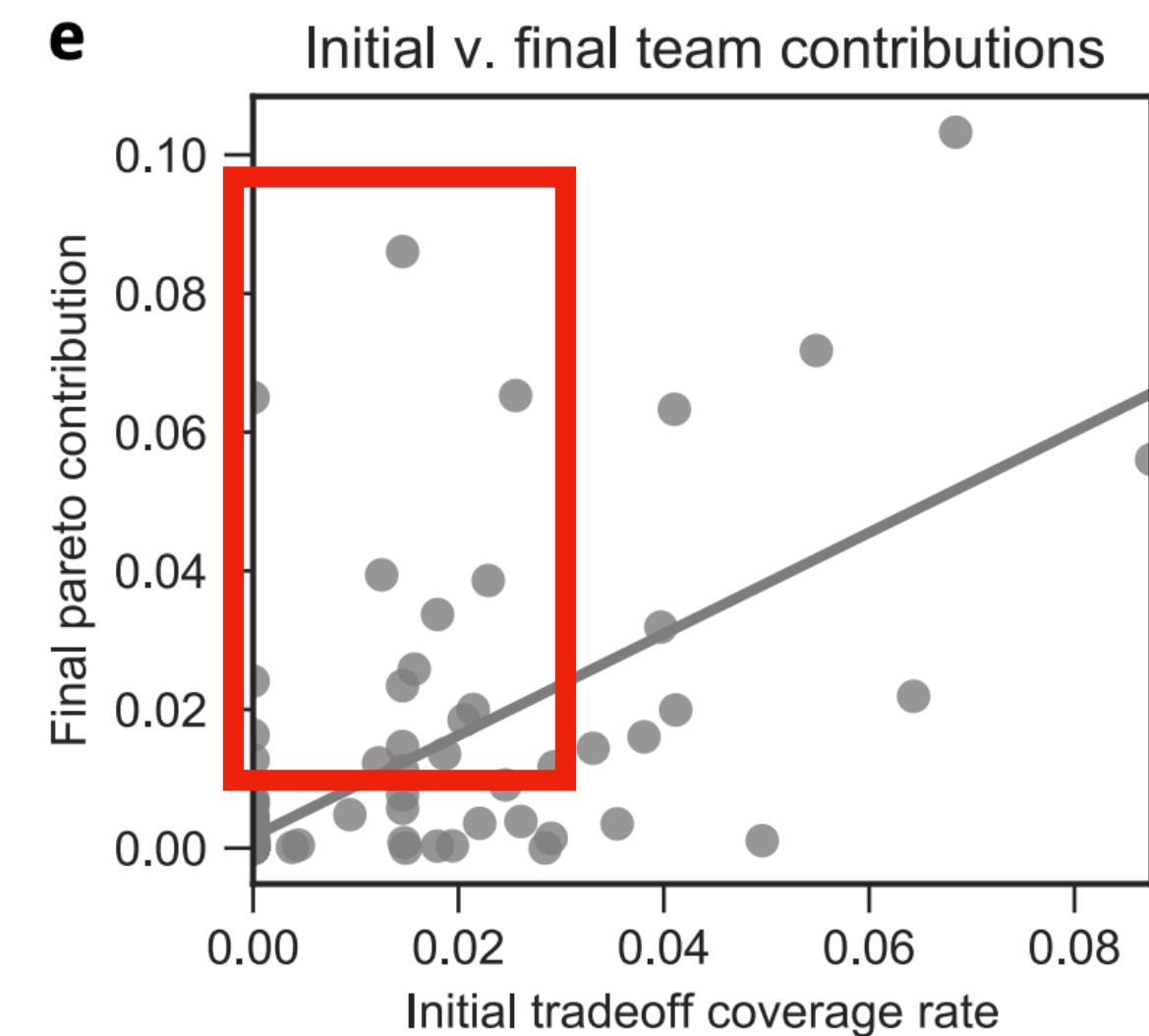
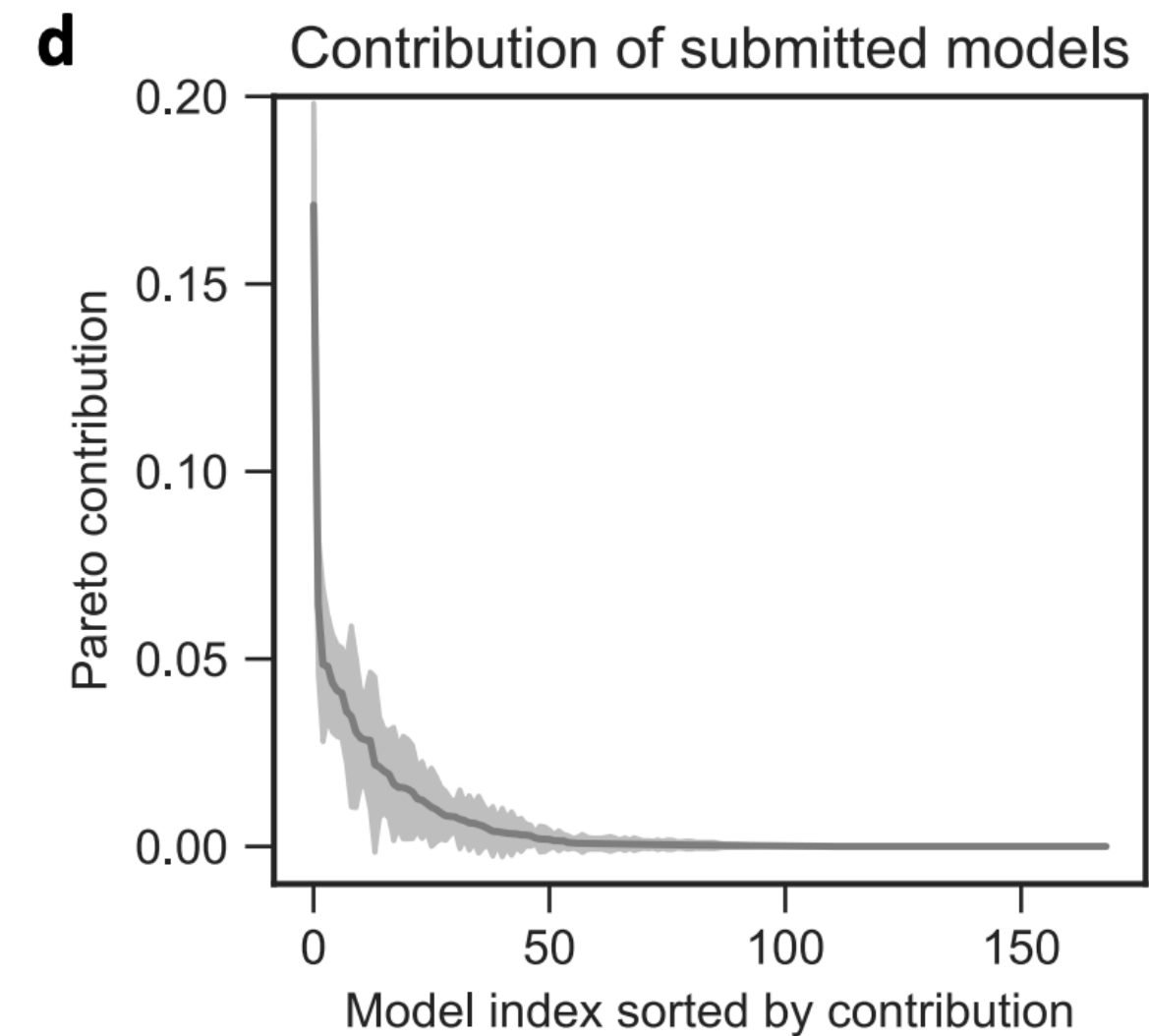
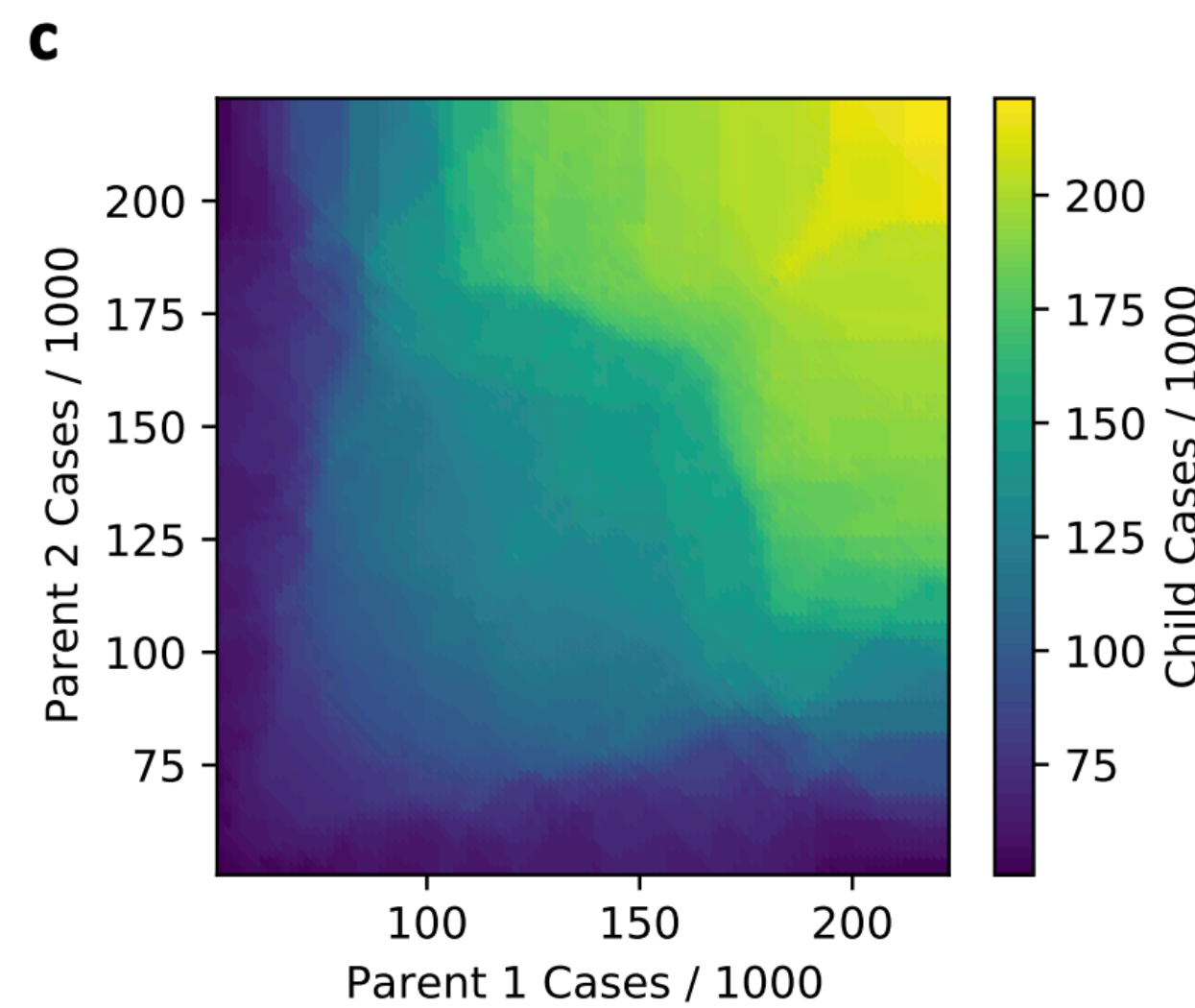
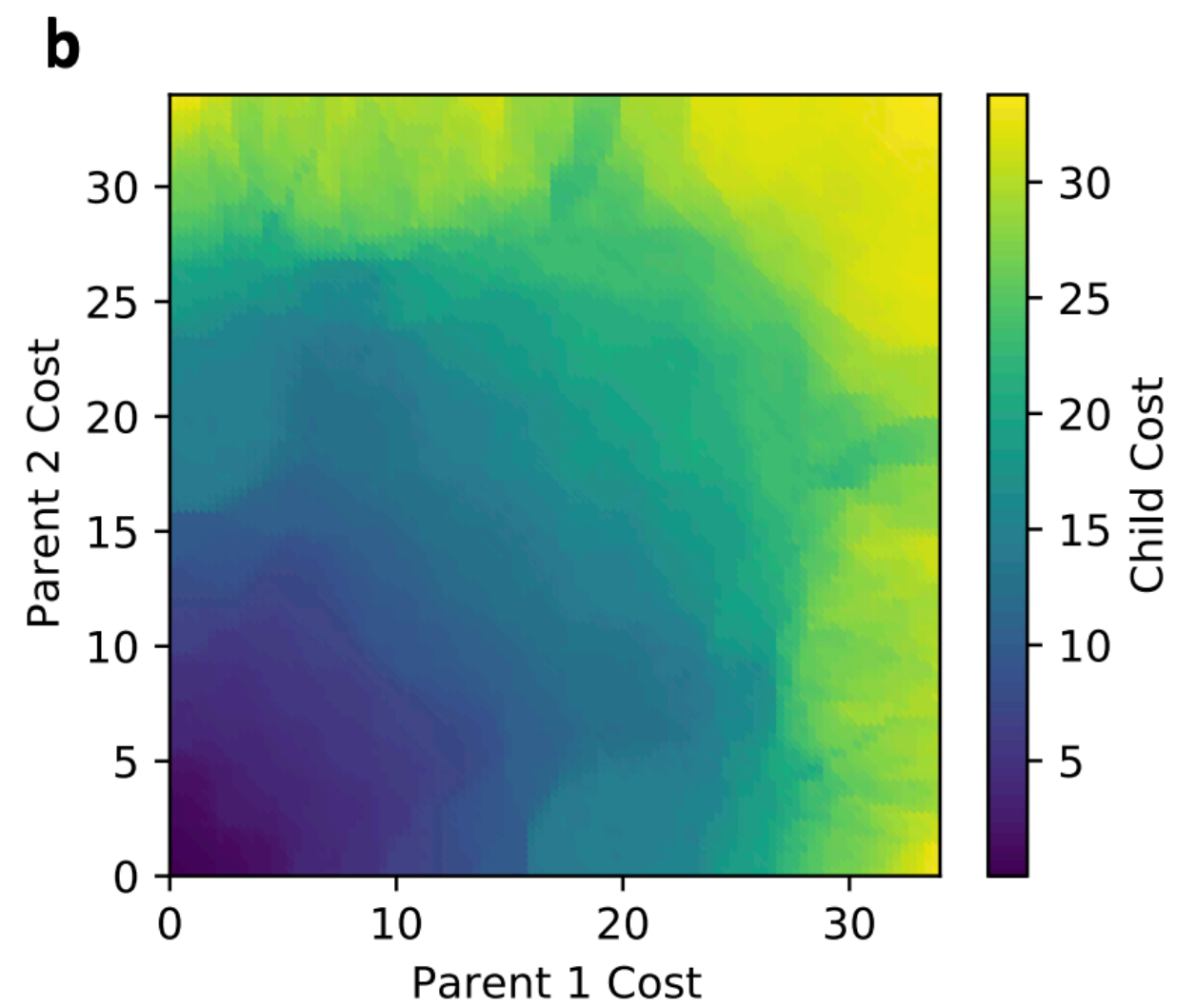
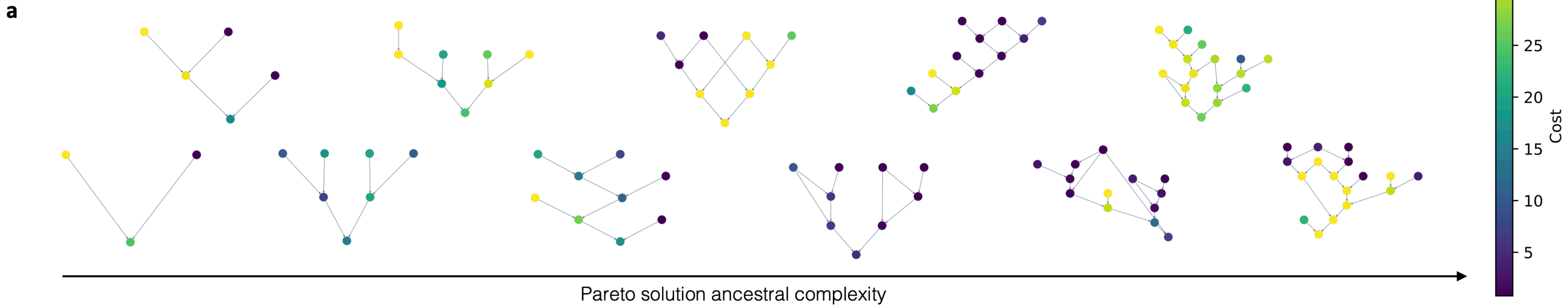
Traceability

a**b****c****d****e**

Structured Recombination



Credit Attribution



Unlocking "Sleeper Knowledge"



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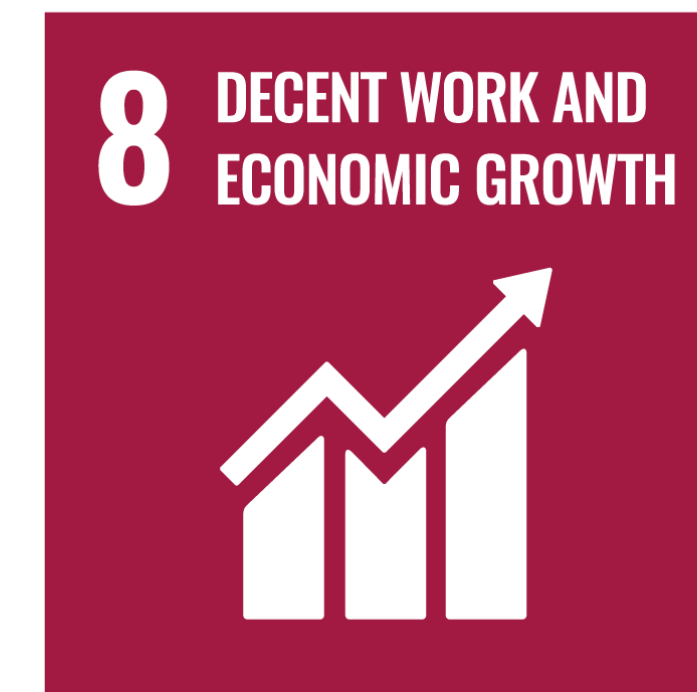
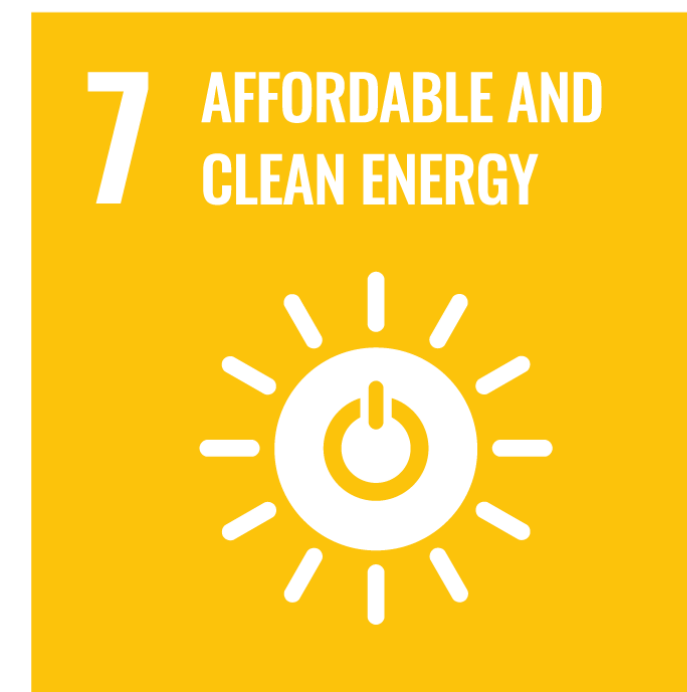
SUSTAINABLE DEVELOPMENT

RHEA Requirements:

1. Formalizability
2. Diversity of Experts
3. Sufficient Difficulty

Ethical Deployment

project-resilience.github.io





INTERNATIONAL
Herald Tribune
THE NEW YORK TIMES AND THE WASHINGTON POST

**HUMANS
WANTED**



#PANDEMICRESPONSE

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WANTED**



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