

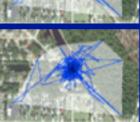




Cat Tracker

Understanding pet cats through citizen science





Dr Philip Roetman, UniSA's Discovery Circle www.discoverycircle.org.au



What is Citizen Science?

Professional researchers engage the public to collect or analyse data within a cooperative framework of research and education



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3 examples of citizen science

1. Christmas Bird Count

27 observers to 70,000+ (LeBaron 2007, 2013)

2. CoCoRaHS (Community Collaborative Rain, Hail, and Snow Network) 7,500 precipitation reports a day MY MAR HAR AND I

3. Galaxy Zoo

1 million+ participants 100 million+ galaxies classified

Zoo 1 : Data Release of Morphological Classifications for 00,000 galaxies'

7), Krvin Schenischi^{1,4}], Strong Bassferd², Aple Daniel Thomas', Edd Edmondrom Karon Masters', Robort 6 F.M. Jordan Rahlech¹, Alex Scolay² Dan Andreeuw², Phil Mar

What is Citizen Science?

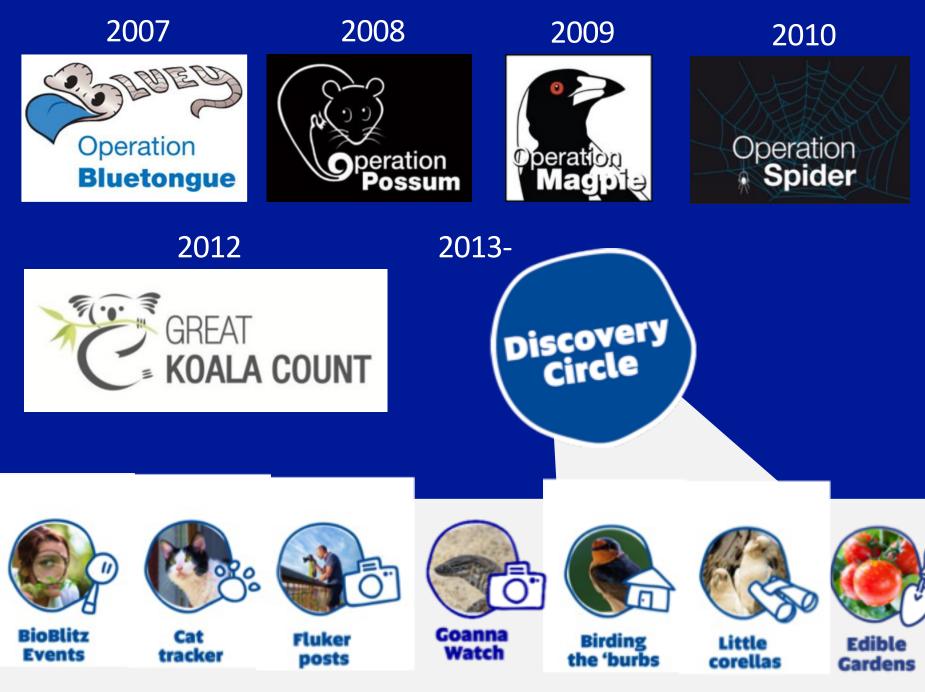


What is Citizen Science?

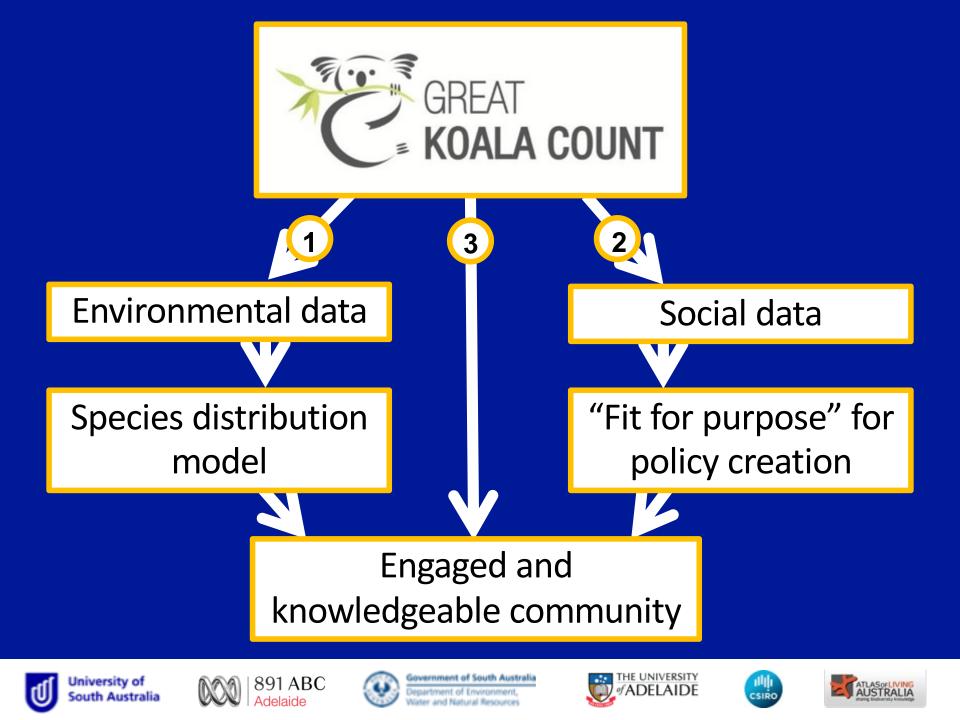
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Discovery Circle



+Environmental identity





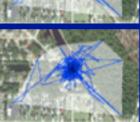




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The Cat Tracker team

Discovery Circle Partners:

- University of South Australia
- Department of Environment, Water and Natural Resources
- Adelaide and Mount Lofty Ranges Natural Resources Management Board
- City of Marion
- City of Salisbury

Local Cat Tracker Project Partners

- Dog and Cat Management Board
- City of Mitcham

International Project Partners:

- North Carolina State University
- North Carolina Natural History Museum
- Victoria University of Wellington

Project team:

- Thousands of Citizen Scientists
- Philip Roetman, Carla Litchfield, Hayley Tindle, Gillian Quinton, Belinda Chiera
- Education team: Kathy Paige, David Lloyd, Yvonne Zeegers
- Partner organisation contributors: UniSA marketing team, David Chan

Why Cat Tracker?

- Need large sample:
 - Cat movement (9%?)
 - Social survey

- Impact:
 - Informed management
 - Engaging cat owners
 - Demonstrating cat range



Cat Tracker: two areas of research

Social survey

- o **3,587**
 - Cat details (4,413)
 - Cat management actions
 - Personality tests
 - Stories

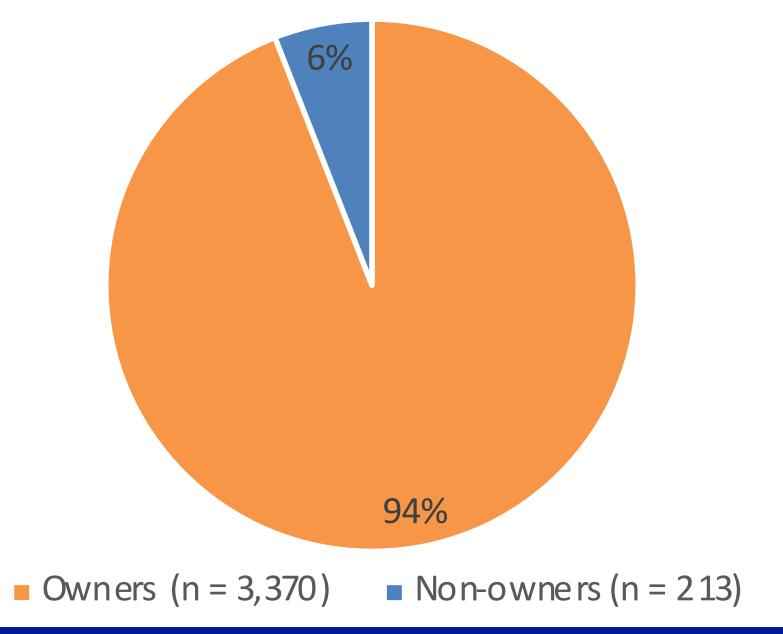
Tracking data

441 cats tracked (49 councils)

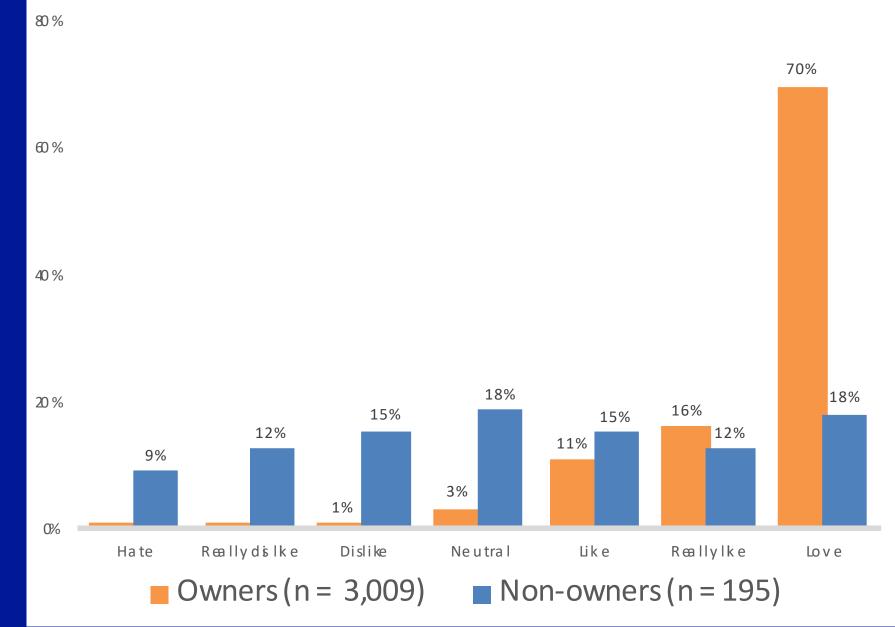




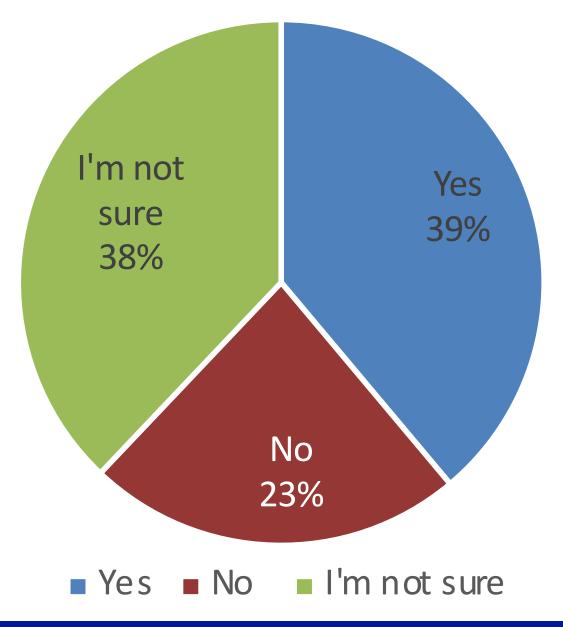
Survey respondents: cat ownership



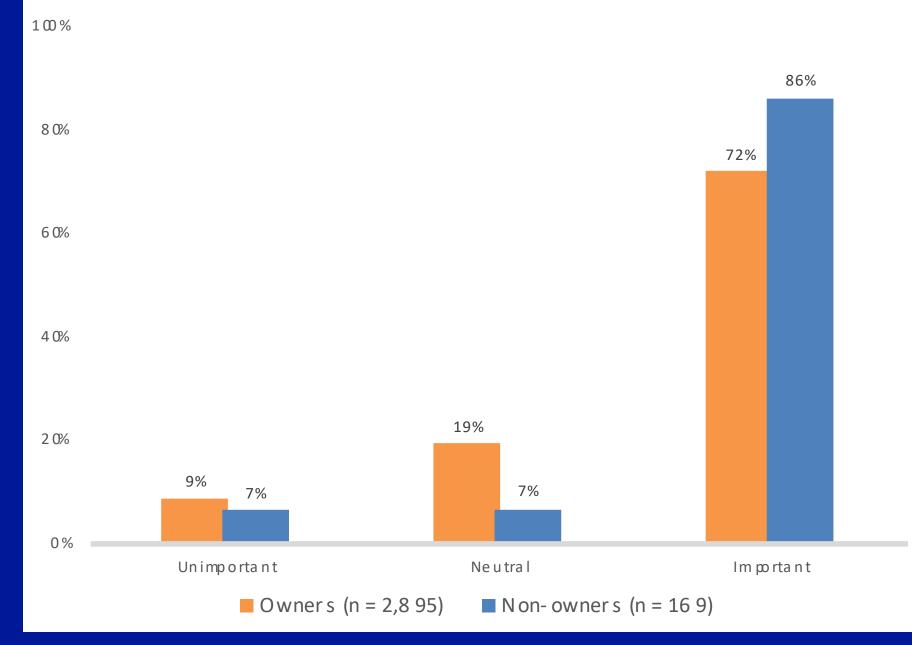
General opinion of pet cats: owners and non-owners



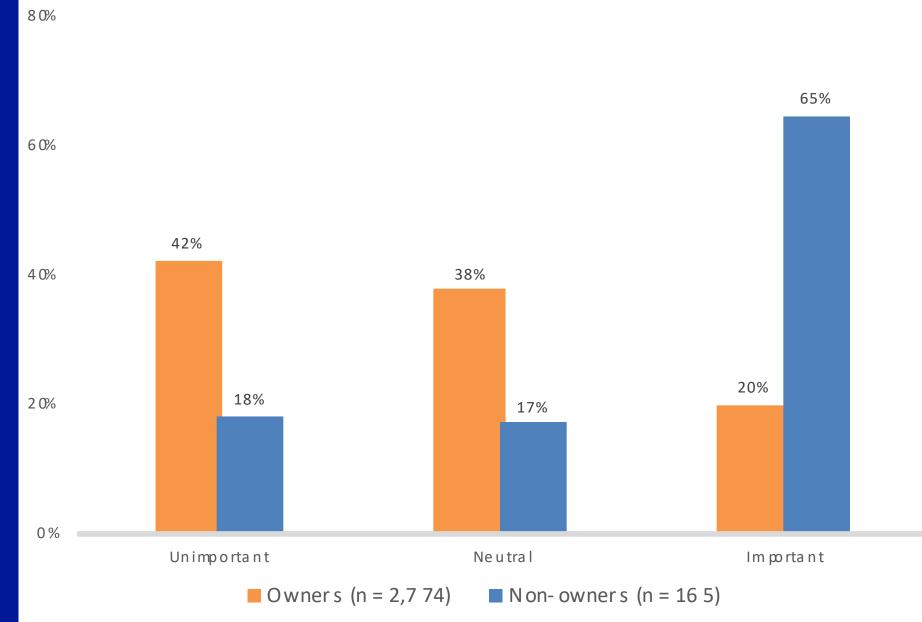
Knowledge of cat laws (n = 3,204)



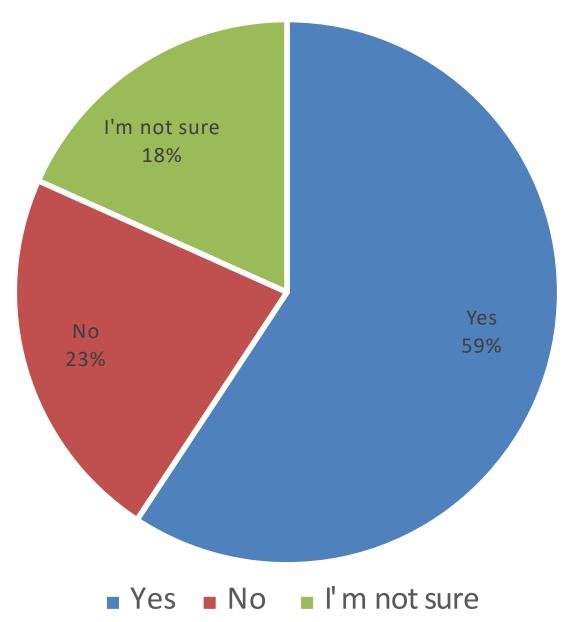
Importance of containing cats during the night



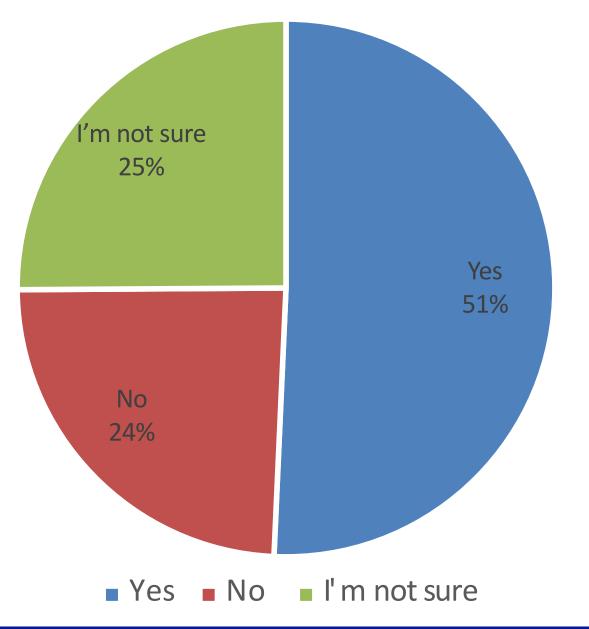
Importance of containing cats during the day



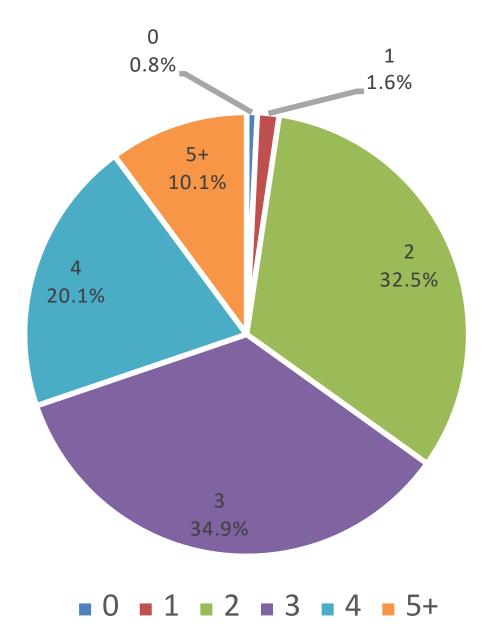
Should there be a night-time curfew on cats? (n = 3,138)

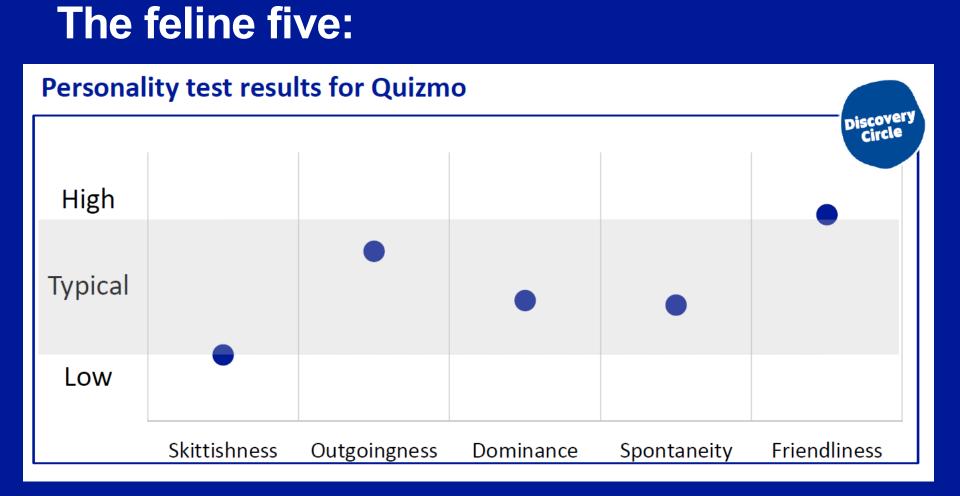


Cat registration: should it be mandatory? (n = 3,151)



Cats per residence: what should be the limit? (n=2,720)





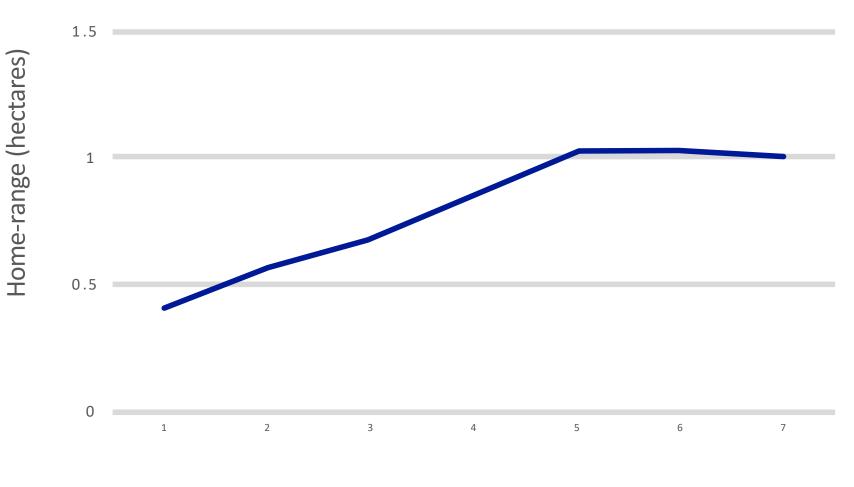
Similarity of indoor and outdoor cats

Social data (personality reports)





Median home-range by number of days tracked (n = 441)



Days Tracked







Prospect 0.5 ha home range (95%MCP)

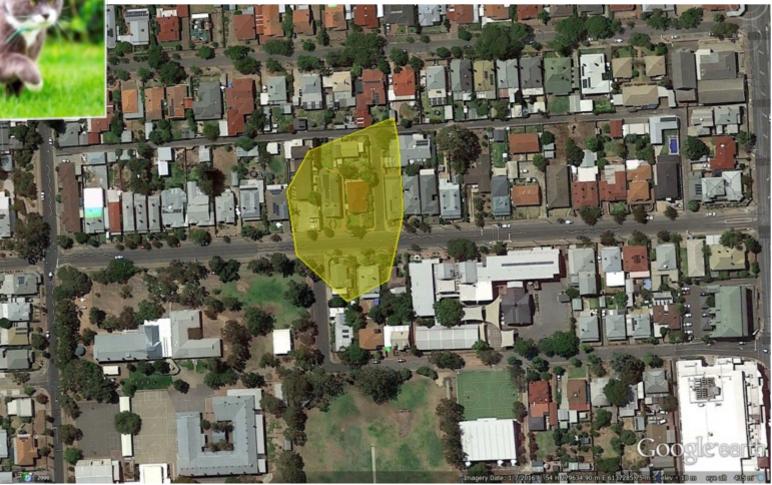






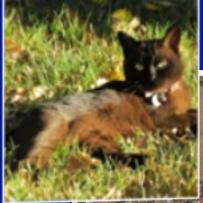


Prospect 0.5 ha home range (95%MCP)



Mon Mon





Hallett Cove 25.2 ha home range (95%MCP)



Mon Mon





Hallett Cove 25.2 ha home range (95%MCP)









Mawson Lakes 0.0 ha home range (95%MCP)



Cat Tracker: Tracking data

Findings:

- Smallest home range: 0.07ha
- Largest home range: 31.13ha
- Average home range: 1.99ha



Walkley Heights

Mt Gambier

circle

Cat Tracker: Tracking data

• Findings:

- Male cats = larger home-ranges
- Wandering cats = more fights
- Wandering cats = more prey
- Wandering cats = younger cats
- Night time = larger home-ranges
- Clandestine cats



Discover the secret life of your cat with **Discovery Circle's** Cat tracker.

Find us on facebook

Home > Projects > Cat Tracker > Cat tracks

Cat tracks

Cats that have been tracked as part of the Cat Tracker project in Australia are displayed below.

Click on 'View Track' under each cat photograph to see the cat's movement... you will need to wait a moment for the data to load.

Find out more about the project and how to participate: click here.

The cat tracks and photographs published as part of the Cat Tracker project are subject to copyright. If you would like to reproduce any of the images or information, please contact us at the Discovery Circle.

Charlotte



Vew Track



View Track



View Track



View Track

Max#2











Where to next?

National project?

- Sign up!
- Nation-wide tracking and social survey
- Analysis of cat diet
 - Diet diaries
 - Isotope analysis of cat hair

Tracking semi-owned cats?

- Utilising current participants
- New technology

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