

LONGITUDE PRIZE

Stimulating novel solutions for AMR by competition
FIS - 1st Dec 2017

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Why run a challenge prize?



Grants

- Can limit the pool of people addressing a particular problem
- Fail to mobilise and excite the broader community
- Focussed on pay for work rather pay for success
- Less well-equipped to focus on a very specific desired outcome, especially when the route to the solution is unknown

Prizes

- Encourages involvement from wider pool
- Captures the imagination, engages with public
- Focusses on pay for success
- Effective when the route to the solution is unknown

The History of the Longitude Prize



Original Longitude Prize set-up by British Government in 1714.

A three-tiered prize, with the top award of £20'000 to determine a ship's longitude in 30 minutes.

Won by John Harrison, a self-educated carpenter and clock maker.

Choosing the new Longitude Prize

LONGITUDE CHALLENGE PRIZE

**#1
FLIGHT**

—

How can we fly without damaging our environment?



LONGITUDE CHALLENGE PRIZE

**#2
FOOD**

—

How can we ensure everyone has nutritious sustainable food?



LONGITUDE CHALLENGE PRIZE

**#3
ANTIBIOTICS**

—

How can we prevent the rise of resistance to antibiotics?



LONGITUDE CHALLENGE PRIZE

**#4
PARALYSIS**

—

How can we restore movement to those with paralysis?



LONGITUDE CHALLENGE PRIZE

**#5
WATER**

—

How can we ensure everyone has access to safe and clean water?



LONGITUDE CHALLENGE PRIZE

**#6
DEMENTIA**

—

How can we help people with dementia live independently for longer?



The Longitude Prize

A **£10 million prize fund** that will reward a transformative, rapid, accurate, and affordable **point-of-care** diagnostic test that can significantly reduce antibiotic misuse or overuse, anywhere in the world.

Why a diagnostic?

- It's a defined challenge with a tangible output - ideal for a challenge prize.
- More targeted use of antibiotics means more effective stewardship of antibiotics.
- Better stewardship means that the antibiotics we have now, and any new drugs that are developed, will be effective for longer.

THE JOURNEY FROM IDEA TO AWARD



The winning test could...

Discriminate between bacterial or viral pathogens

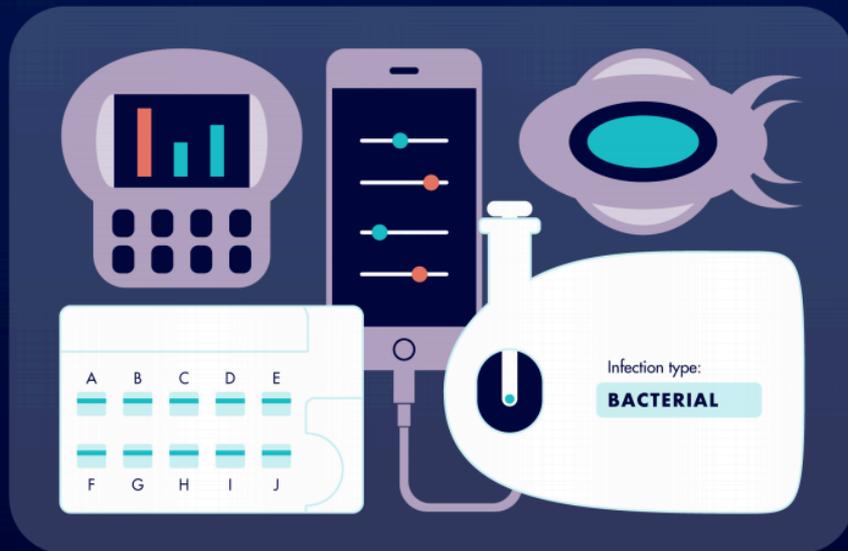
OR

Identify which species or strain is causing an infection

AND, OR

Detect antibiotic sensitivity of the infecting pathogen

WHAT KIND OF TEST COULD WIN THE LONGITUDE PRIZE?



ENVIRONMENTAL STABILITY



EASILY CARRIED



NO COLD CHAIN



NO MAINS POWER



NEEDED

Improve the antibiotic treatment decision of a globally occurring problem



ACCURATE

Eliminate harmful treatment decisions and give confidence to the user



AFFORDABLE

Affordable for purchase and use everywhere that it is needed



RAPID

Sample collection to result in less than 30 minutes



EASY TO USE

Can be used and interpreted anywhere in the world with minimal training



CONNECTED

Tests with built-in data-recording and transmission will be favoured



SAFE

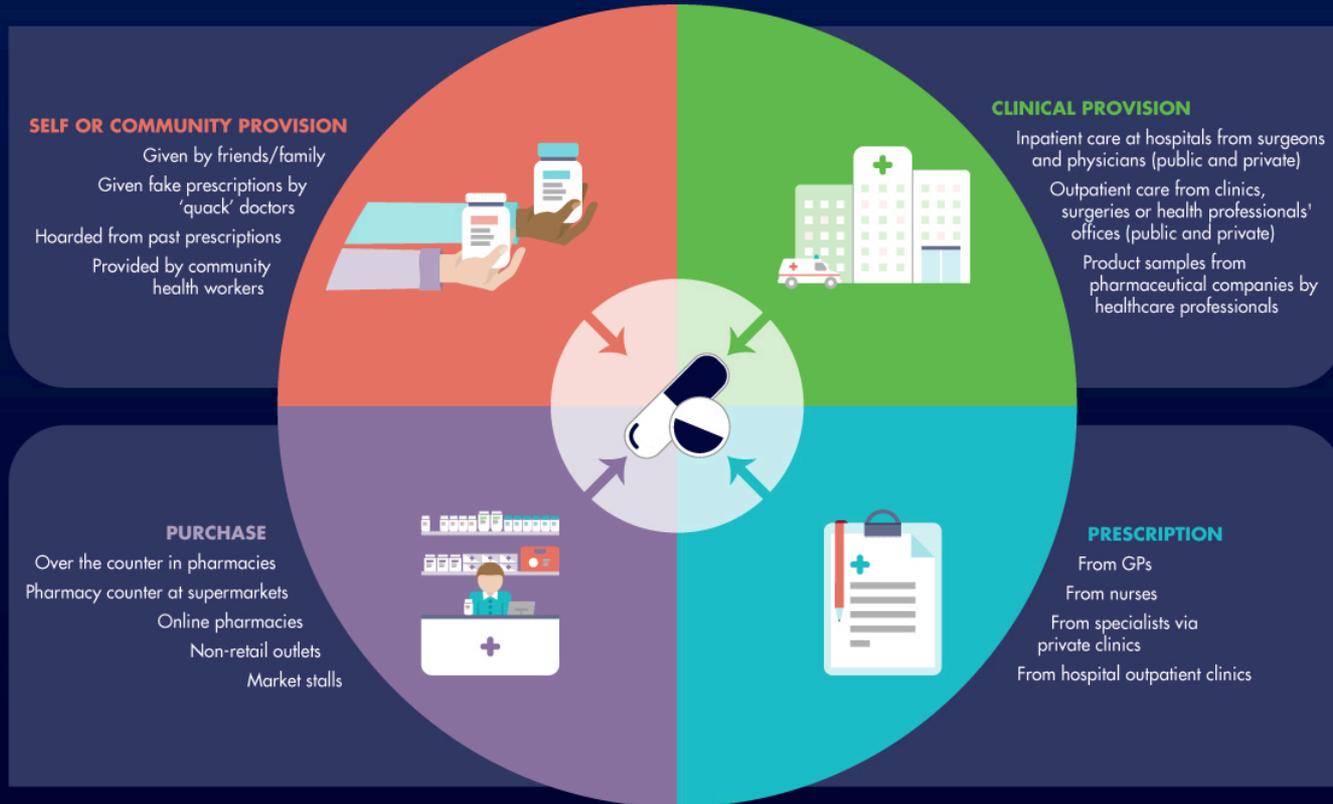
The benefits far outweigh any risks



SCALABLE

A plan for full-scale manufacture and distribution

ROUTES TO ANTIBIOTICS



Update December 2017

- 250 teams registered, from 41 countries
- 12 full entries to win
- 25 teams have won Discovery Awards (up to £25'000)
- Latest Discovery Awards took place in November in Delhi

LONGITUDE PRIZE
DISCOVERY AWARDS



Innovate UK

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Behaviour change



Future Considerations

Three years into the five year prize;

How do we validate a potential winner?

How do we support current teams?

- Workshops
- Networking/collaborating
- Grants

Contact

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