

# WHAT'S POSSIBLE?



**LONGITUDE  
EXPLORER PRIZE**

Introductory Presentation

IBM

Nesta...



## What does the future look like?

Imagine the world where billions of devices are connected. Things like cars, smoke detectors, door locks, trains, industrial robots, heart monitors, wind turbines, or even tennis racquets and toasters.



## Have you ever thought about changing the world?

- What would you do?
- How would you make it a better place?
- How can you help people live **healthier**?





## What if technology was the key to making the world better?

Why do you think technology plays a vital role in making the world a better place?

Can you think of examples where you have seen this happen?



## What is the Internet of Things?

The Internet of Things is a concept where internet-connected devices generate data without human input, using sensors and other electronics. The Internet connection enables devices to talk to us and each other.

Imagine a future when your car tells your house that you are five miles away to turn on the lights and warm up the house...

**Do you think that future is far away?**



## Examples of the Internet of Things technologies people use everyday

- **Smart pet food dispenser** helps you feed your pet. You can control it via your smartphone to monitor your pet's food consumption even if you're away from home.
- **Smart wristbands** measure your blood pressure, speed of running and calculates calorie burn. It even assesses your sleep thanks to sensors detecting how often you move at night. It transfers all that information to your smartphone.
- **Smart alarm clocks** connects to your smart TV and wakes you up to your favourite TV show. It can also provide traffic and weather updates!





## What health issues do we face nowadays?

Many health issues depend on lifestyle choices we make. That means that we can prevent dangerous health conditions and minimise risks.

Nowadays many preventable conditions, such as obesity or mental issues can be better managed through internet-connected devices.





## Internet of Things and health

Internet-connected devices are already present in healthcare industry. Can you think of any?

A simple but exciting and innovative example is a pills dispenser with appropriate sensors that track medication intake and feed directly to a GP.



**So how would you connect devices  
to benefit the world?**





## How can the Internet of Things be used to address health issues?

**Your challenge...** To come up with new ideas for products, technologies and services that use the Internet of Things to have a positive impact on health issues. You should use your imagination to come up with new and exciting ideas to help shape our lives for the better.





**Choose one or more of the following health themes you would like to focus your idea on:**

-  **Childhood Obesity**
-  **Physical Activity**
-  **Pollution**
-  **Mental Health**

**Enter your idea to the Longitude Explorer Prize!**

# The competition!

All finalists  
will be supported  
by IBM to develop  
working prototypes  
of their ideas!

## Entry Stage:



**January 2017 –  
3 March 2017**

Entries to the Longitude Explorer Prize will be via the online platform. Initially we invite entries as an outline description of an innovative idea that students have identified relating to one of the themes. Schools can submit as many ideas as they wish at the entry stage. The deadline for the submission of outline ideas is 3 March 2017.

## Finalists Stage:

**April 2017 –  
July 2017**

Once the deadline for submissions has closed, around 10 finalists will be selected to develop their ideas and to create prototypes of their innovations. Expert guidance, mentoring support and resources will be provided to support the development of the ideas.

## Awards:

**Announcement in July  
2017**

The Finalists will be invited to present their prototypes at the Awards Event in London on 13 July 2017. The judges will select and announce the winners on the day!

**The Prize £10,000 will be awarded to the winning school plus individual prizes for participants; there are two runners up prizes of £1,000 each.**





## The Judging Criteria

### Innovation

Is the idea new or an innovative adaptation?

### Theme and social relevance

Is the idea backed by research into health themes?

### Use of data

Has the group identified what devices will be connected and what data will be collected and/or shared?

### Concept into reality

How has the group developed their idea?

### Application

How has the group considered the practicalities of their idea, including who will use it?

### Teamwork

Has the group shown effective teamwork skills?

### Communication

Has the group considered the most appropriate for way to communicate their idea?

## Prizes

### For Your School:

£10,000 will be awarded to the winning school. There are two runner up prizes of £1,000 each.

### For You:

An exciting range of individual prizes to be revealed at finalist stage.



**OVER TO YOU!**

**Get thinking about what you would do**

Enter your idea to win:

[www.longitudeexplorer.challenges.org](http://www.longitudeexplorer.challenges.org)