tinyML for Good

Tiny technology for the world's biggest challenges

Empowering the next generation of TinyML problem solvers

Lessons from students around the world tackling the Global Goals with the BBC micro:bit

Jonny Austin - Micro:bit Educational Foundation





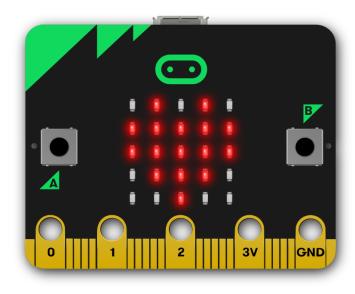


BBC micro:bit

Versatile, programmable loT device that is designed for use in the classroom

Available in 70 countries for $\sim £10$ in volume

More than 5 million devices distributed



Low floor, high ceiling

micro:bit V2 released Nov 2020 with speaker, microphone, Cortex-M4F with 64kB RAM, 512kB Flash Easy to program, no installation or drivers

Simple wireless communication

Battery powered

Built-in motion sensors, instantly interactive

Hundreds of sensors and accessories







Inspire every child to create their best digital future



Authentic problems

+

Accessible and effective technology



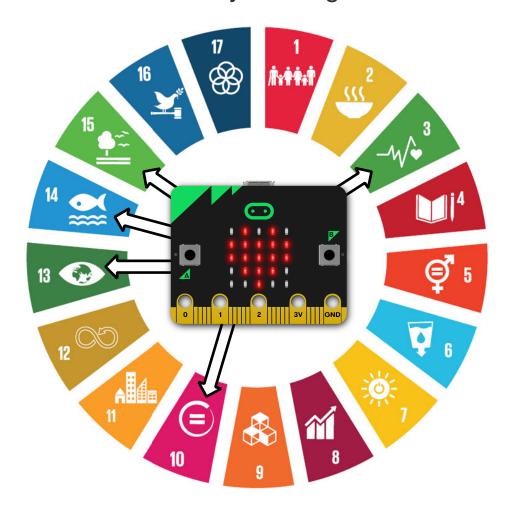
Students who don't know what should be impossible

Incredible solutions



do your :bit challenge

Test your imagination and combine creativity and technology to come up with solutions for the Global Goals by tackling the issues we're facing today.





Healthy Microbit

https://microbit.org/projects/do-your-bit/winners/2021/



The healthy microlait tracks how long your been inside and when the timer on the microlait his 90 minutes is says to go outside and do an activity.



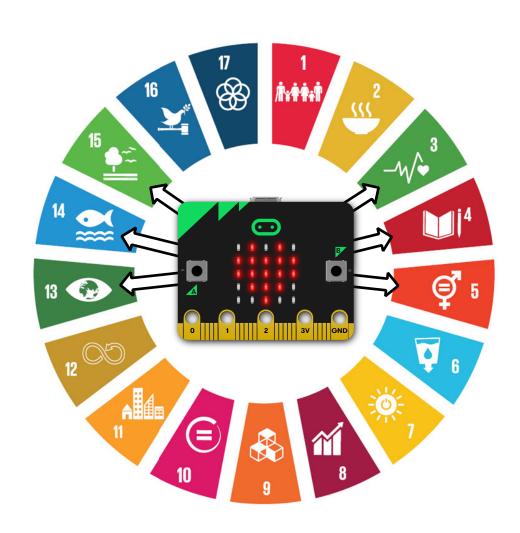


Essential to the effectiveness of micro:bit is ease of use

...and TinyML is what we are tackling next



Example: the global goals



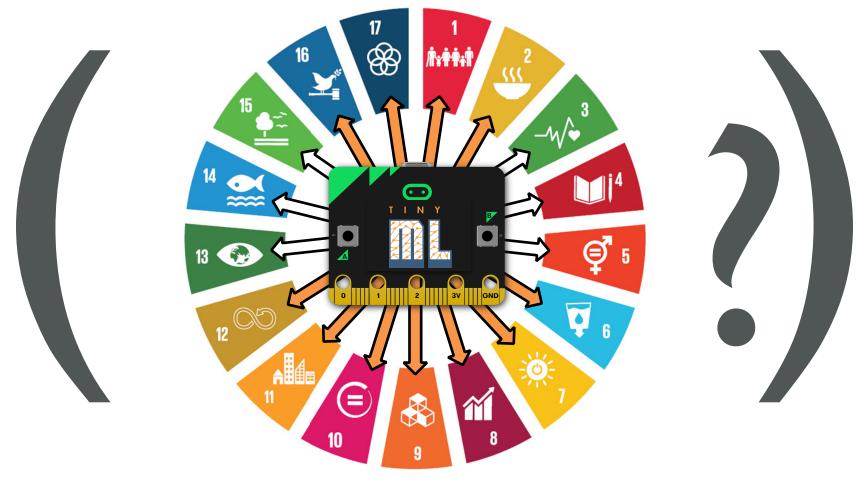


Example: the global goals





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Help us! Jonny@microbit.org



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