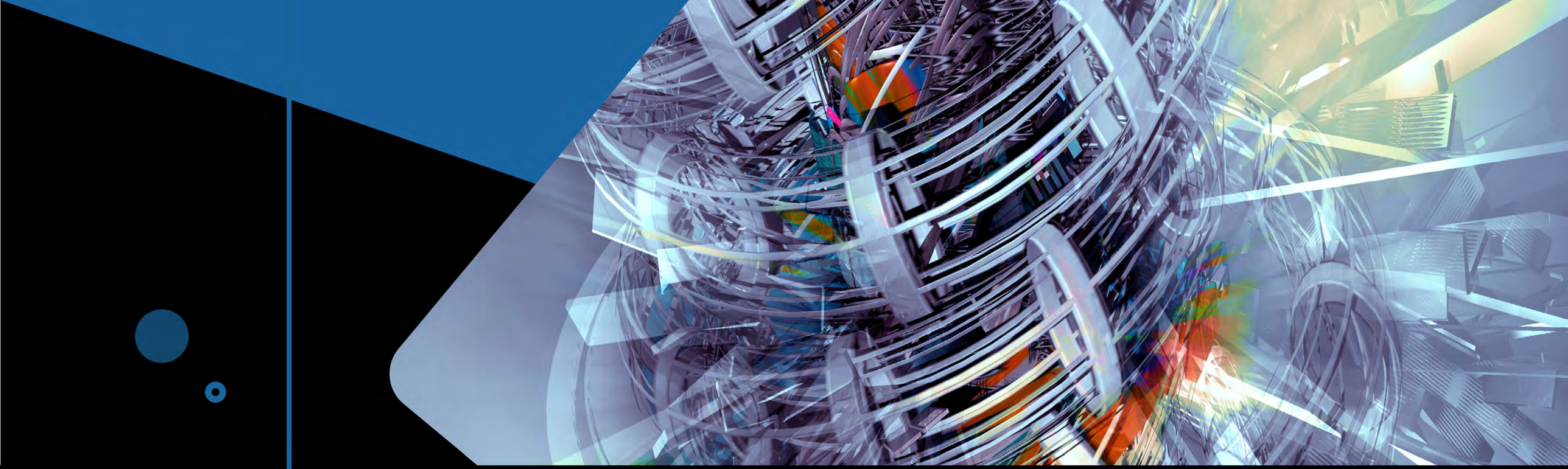

brainboxes

www.brainboxes.com

industrial connectivity for the automation market

Connect industrial IoT projects around the world:

from the factory floor
to the most rugged terrains
on Earth and beyond

- ✓ Lifetime guarantee & tech support
- ✓ Open source options
- ✓ UK manufacturing
- ✓ Free product evaluation programme

brainboxes

Product **Portfolio**

USB to serial

Reliable serial port connectivity for PC/Laptop

Ethernet to Serial

Access serial devices over an IT network

Unmanaged Ethernet Switches

Industrial specification, commercial pricing

IOT Solutions Ethernet to Digital IO

Monitor and control applications and processes from any location

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Customer **Resources**

Expert Lifetime
Tech Support

3D CAD files
Software/Drivers

FAQs, Whitepapers
Video Tutorials

Case Studies
Applications

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Asset **Downloads**

Factory Monitoring Playbook

a gameplan for digital transformation

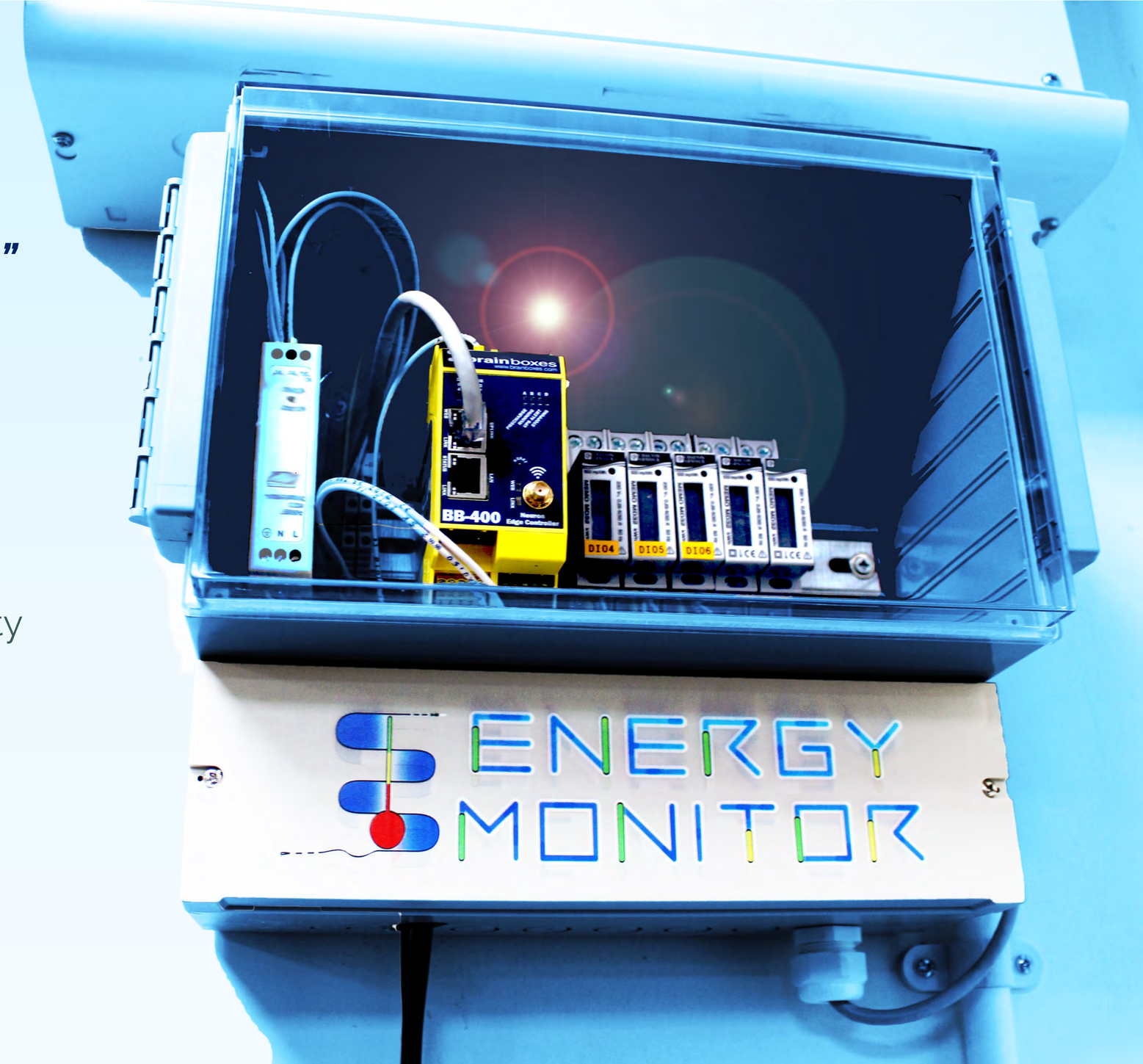
SCAN ME

brain boxes

“If a business can't express at least a desire to become more sustainable, I won't be interested”

Deborah Meaden, Dragon’s Den Investor

- ✓ Efficiently capture, aggregate and analyse your plant-wide energy data
- ✓ Reduce the impact of market volatility on your production costs
- ✓ Increase positive brand perception
- ✓ Achieve substantial financial savings



ENERGY SUBMETERS
Energy Monitoring individual
Not Secure | 192.168.3.128:3000/d/ReG7OLkgz/energy-monitoring-individual-pulse-data?orgId=1&refresh=10s
General / Energy Monitoring individual pulse data
Today so far BST
10s
Devices
All
UK Gov Fuel Mix Data
ENERGY MONITOR
Price Per kWh
£ 0.21
gCO2 Per kWh
373.3 g
Power
Total
5.01 kWh
Air Purifier
4.43 kWh
Robot Cell
0 kWh
Plug Sockets
0.577 kWh
£ Cost
Total
£1.05
Air Purifier
£0.93
Robot Cell
£0
Plug Sockets
£0.12
Carbon Footprint
Total
1.87 kg
Air Purifier
1.66 kg
Robot Cell
0 g
Plug Sockets
215.39 g
Instantaneous Power (last 5 minutes)
0.684 kW
Total
0.624 kW
Air Purifier
0.060 kW
Plug Sockets
0 kW
Robot Cell

AUTOMATION IN THE ANTARCTIC

monitoring energy generation

“Antarctic winter conditions are brutal…the systems have operated in temperatures as low as – 55˚C and withstood wind speeds of up to 70 knots.”

— Thomas Barningham, BAS Project Manager

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HALLEY VI RESEARCH STATION - Brunt Ice Shelf, Antarctica

Brunt Ice Shelf

McDonald
Ice Rumples

Halloween crack

Creek
Relief Area

Halley
VIa

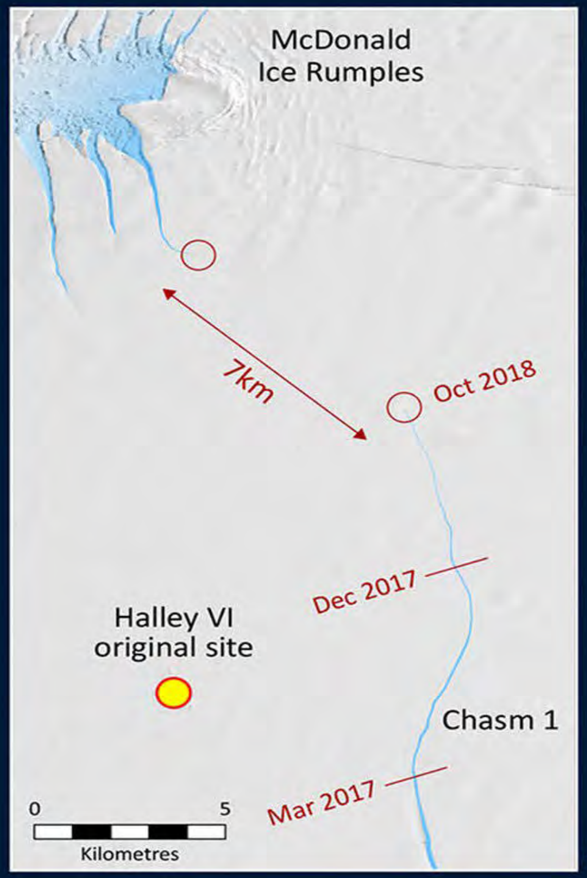
Halley VI
original site

9th October 2018

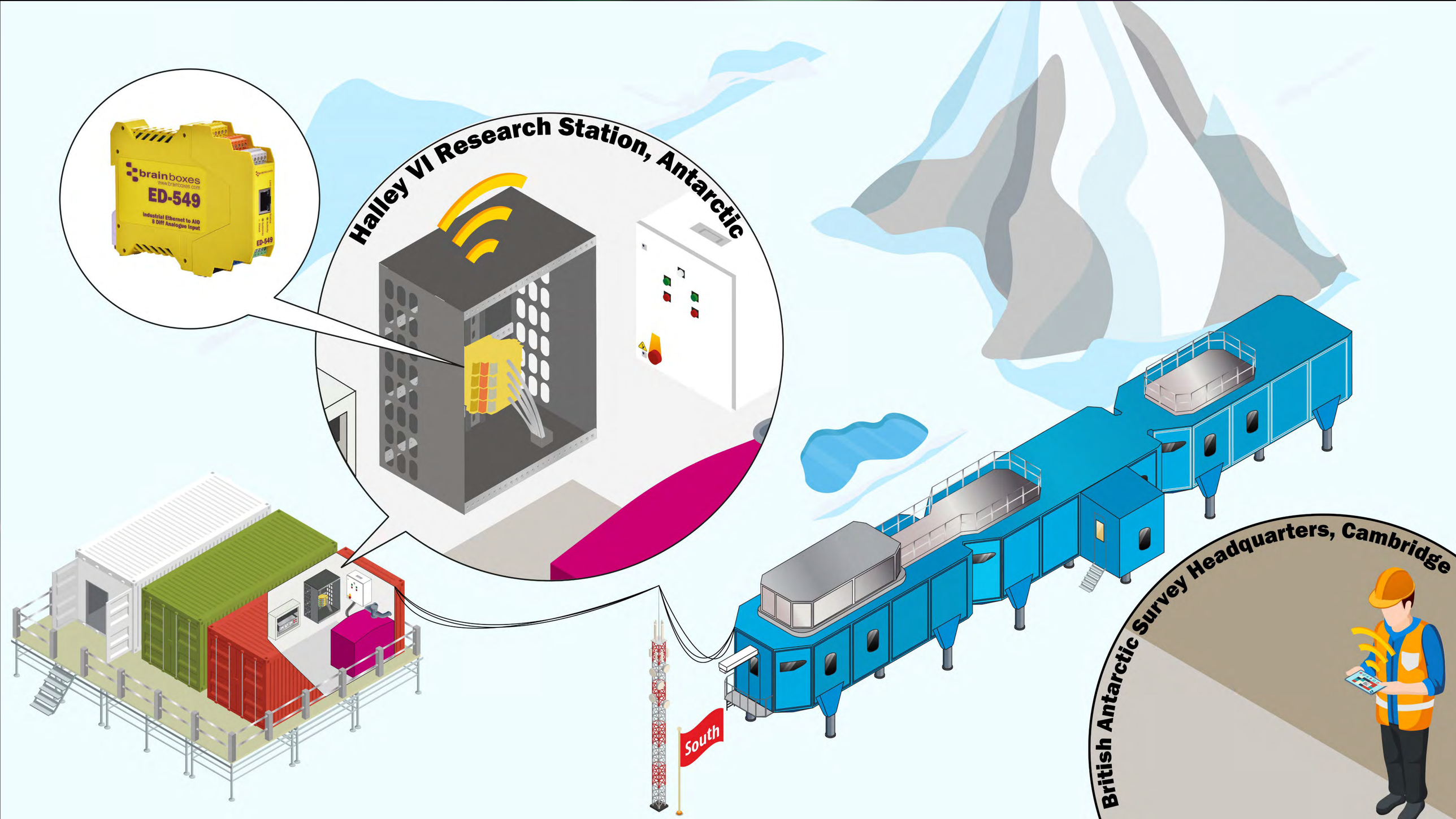
Chasm 1

Chasm 2

Antarctic continent



0 10 20
Kilometres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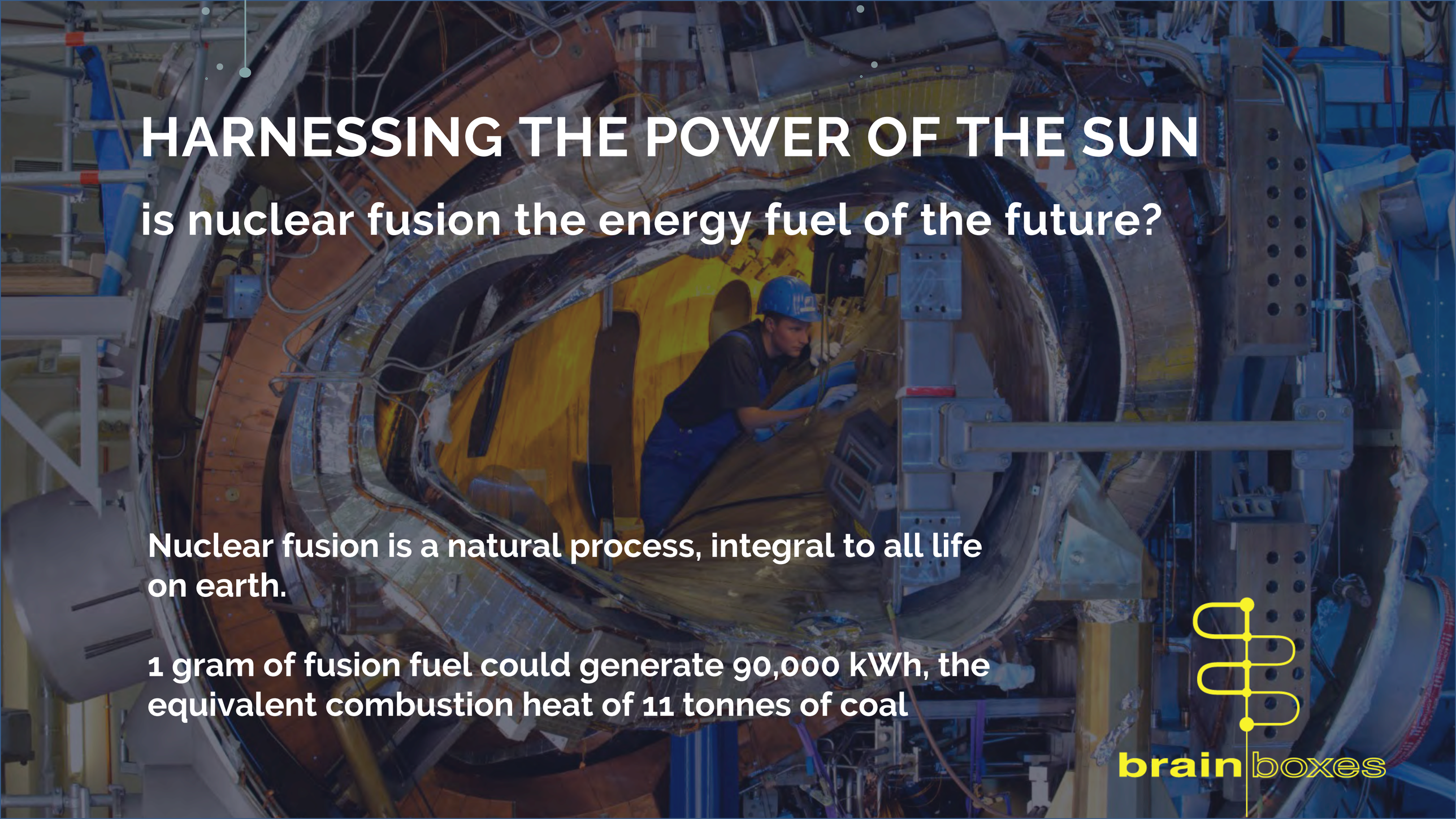
ED-549
Industrial Ethernet to AIO
8 Diff Analogue Input
ED-549
Halley VI Research Station, Antarctic
South
British Antarctic Survey Headquarters, Cambridge



HARNESSING THE POWER OF THE SUN

is nuclear fusion the energy fuel of the future?

Nuclear fusion is a natural process, integral to all life on earth.

1 gram of fusion fuel could generate 90,000 kWh, the equivalent combustion heat of 11 tonnes of coal

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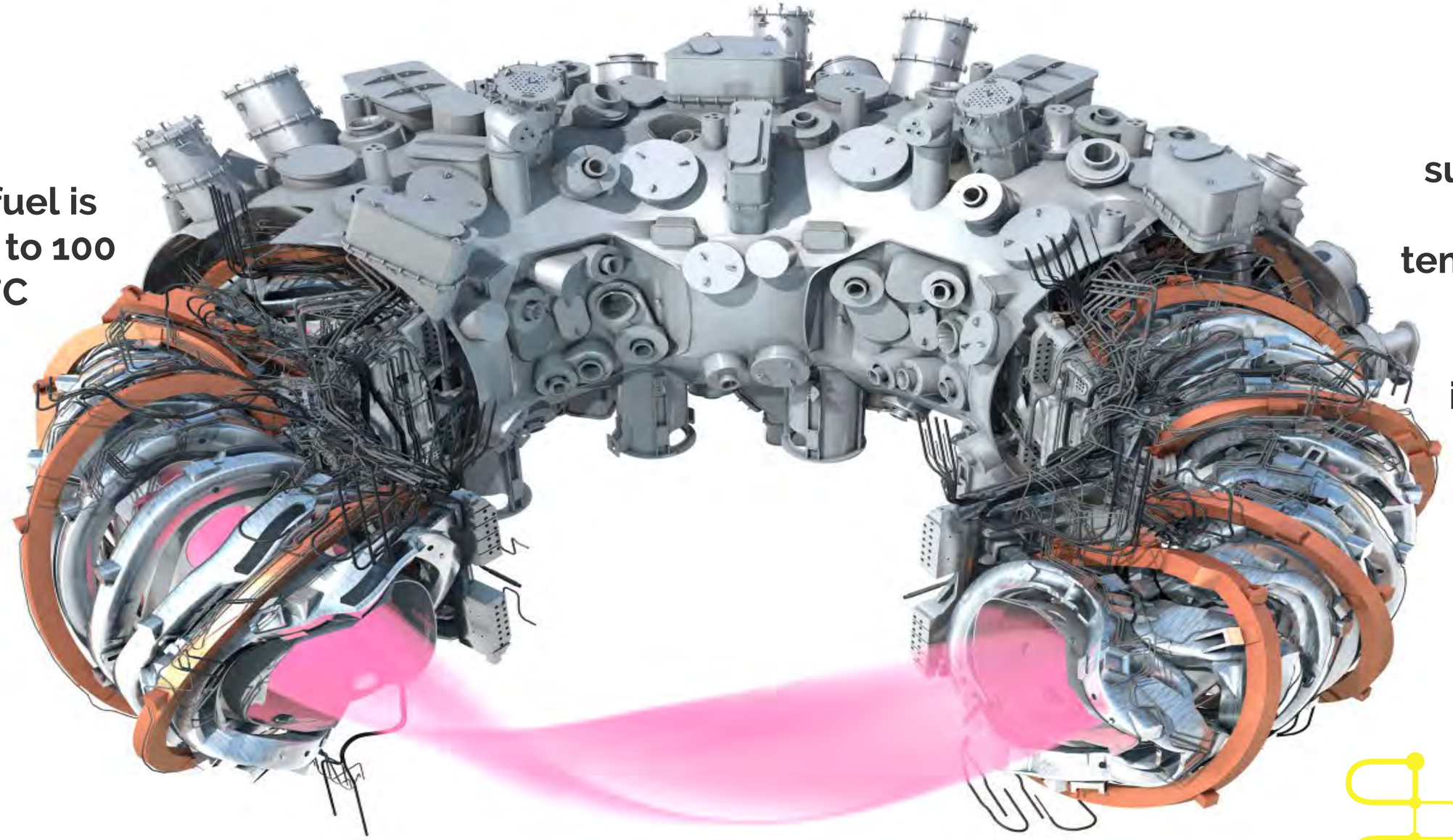
fusion fuel is heated to 100 million˚C



50 subsystems measure: temperature, density, energy, impurities, etc.

Ethernet to Serial Brainboxes send critical data from sensors over the network to the control PC a safe distance away

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FROM INDUSTRIAL WASTE TO CLEAN ENERGY

fuelling smart heating systems

The costs associated with industrial heating and the disposal of industrial biomass can be significant; both to businesses and to the environment

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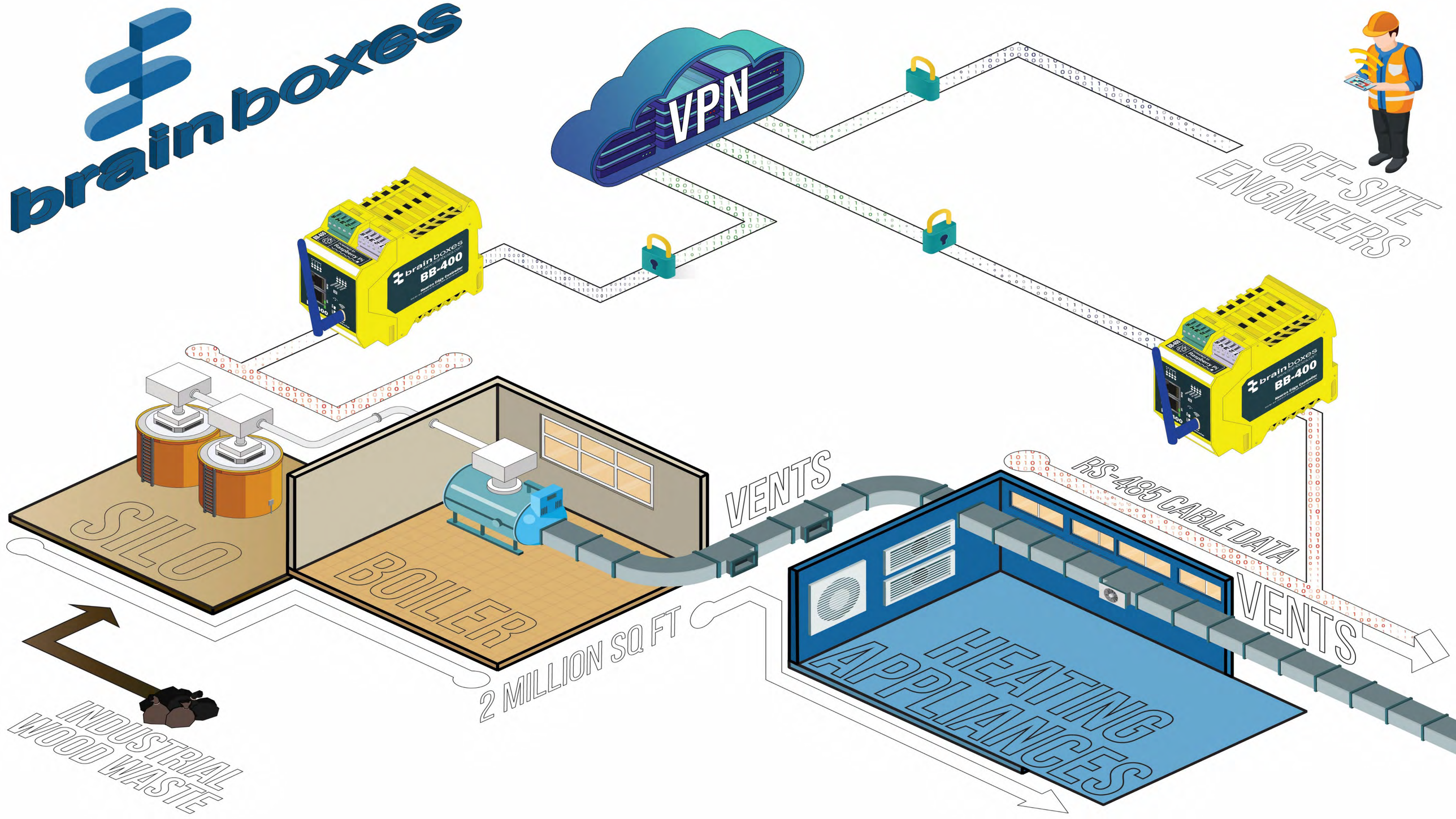
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VPN
OFF-SITE ENGINEERS
BB-400
Powered by Raspberry Pi
SILO
BOILER
VENTS
RS-485 CABLE DATA
VENTS
2 MILLION SQ FT
HEATING APPLIANCES
INDUSTRIAL WOOD WASTE

2023 Product **Roadmap**

- ✓ extended Gigabit switch range
- ✓ more embedded options
- ✓ SFP media converters
- ✓ next generation embedded Ethernet

Q2

Q3

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