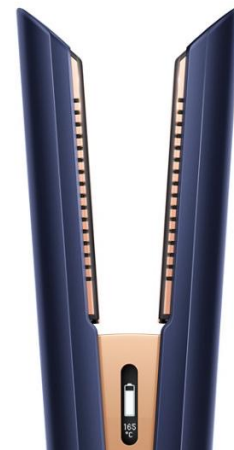
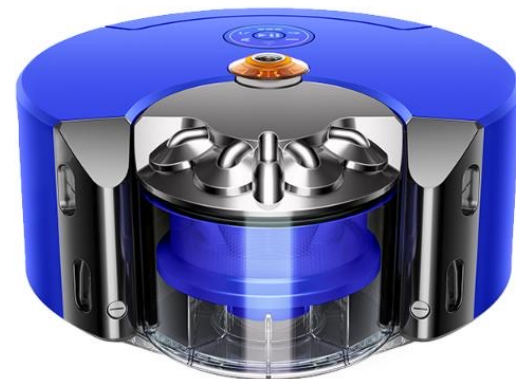


# Connected Development of Connected Product

A Success Story in Dyson's New Product Innovation Software Team

Moe Sani, Lead Embedded Software Engineer

# New Product Innovation Software Team



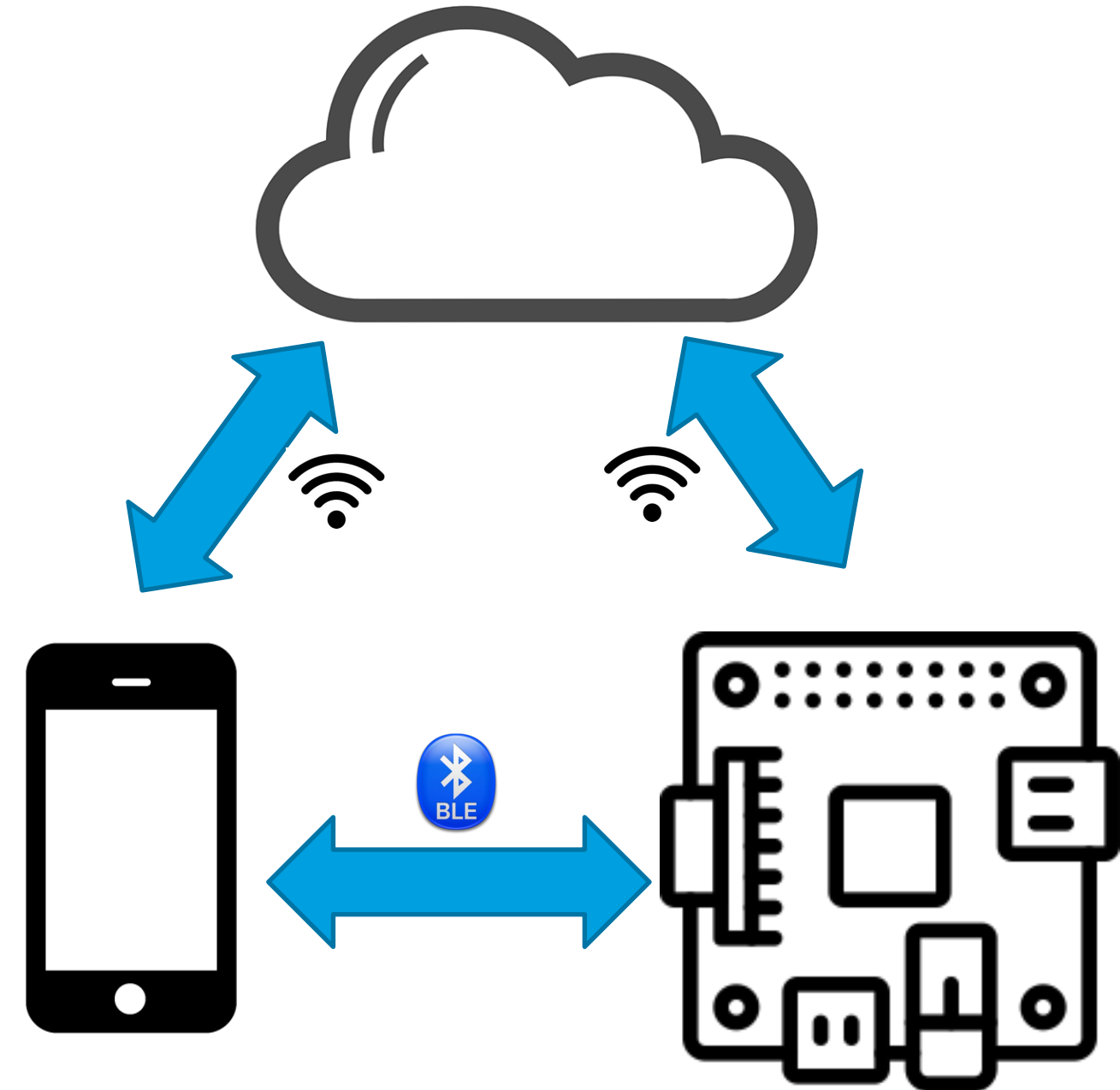
- New products can have loose or undefined features
- Global teams working on the same product
- Early-stage products are subject to change
- Need to develop the app/cloud before product is ready



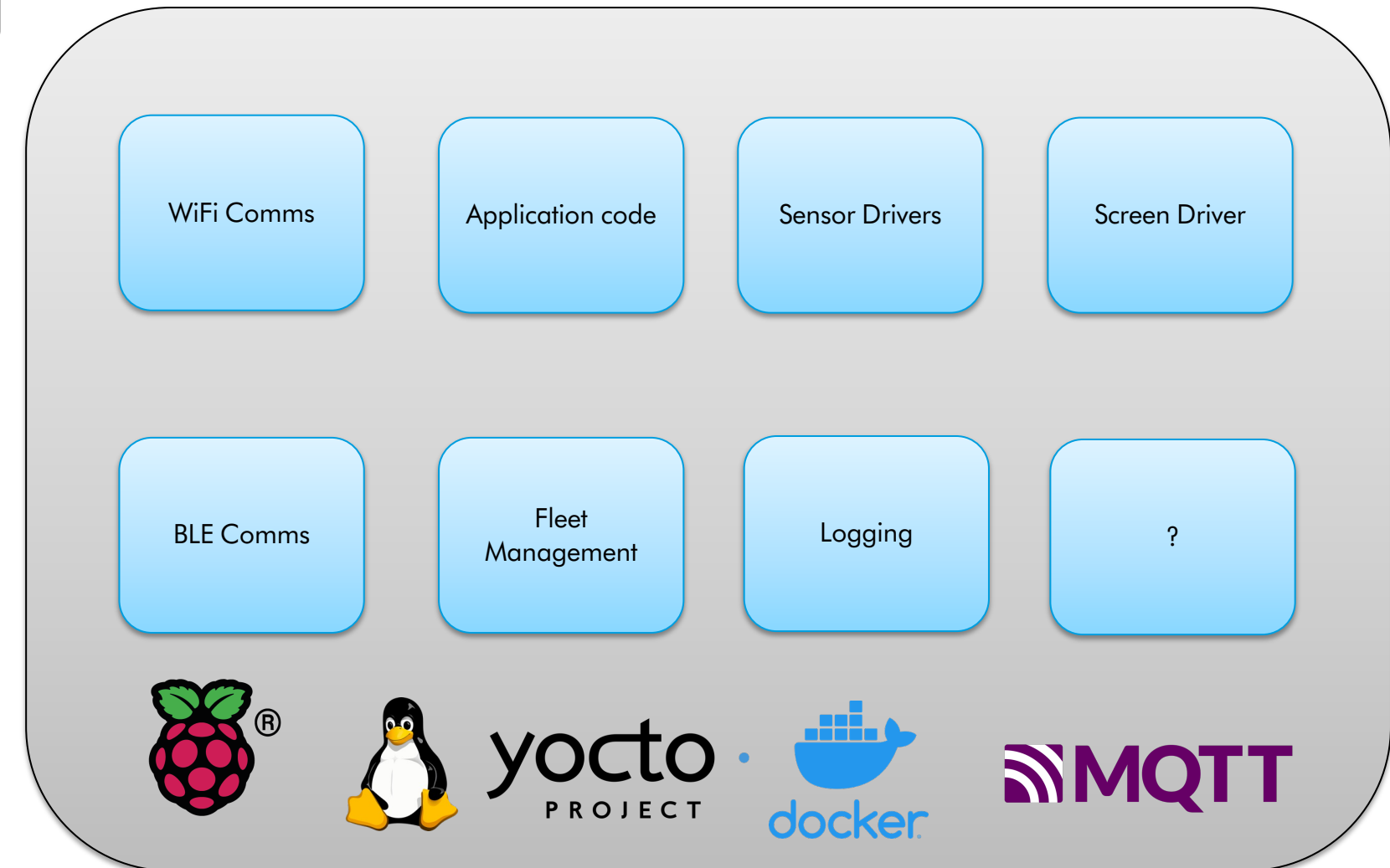
- How do we develop an app/cloud without access to the final product?
- How do we develop product behaviours?
- How do we test product behaviour?
- How do we keep global product teams in sync?



- Connected
- Over the air update
- Remote debugging
- Easy to modify
- Easy to add peripherals
- Support all products



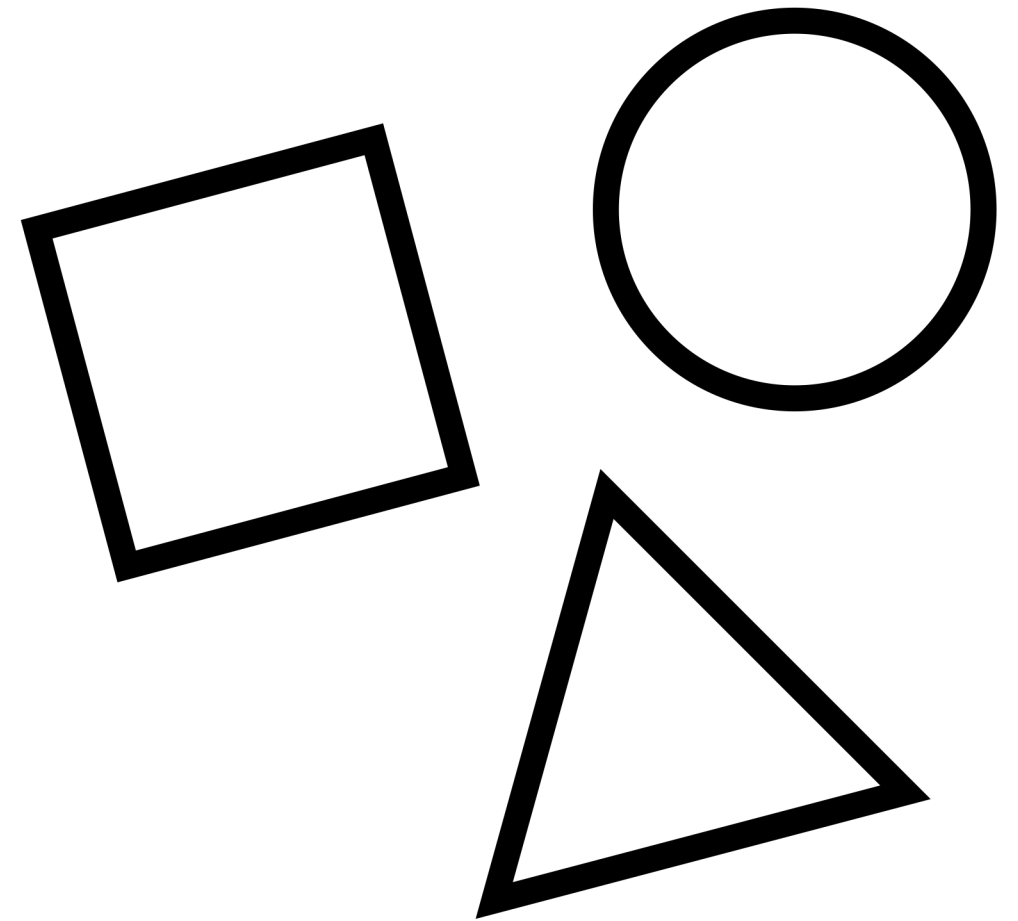
- Wi-Fi and BLE connected
- Local logging and cloud logging
- Remote access
- Fleet management
- Reusable blocks
- Feature roadmap



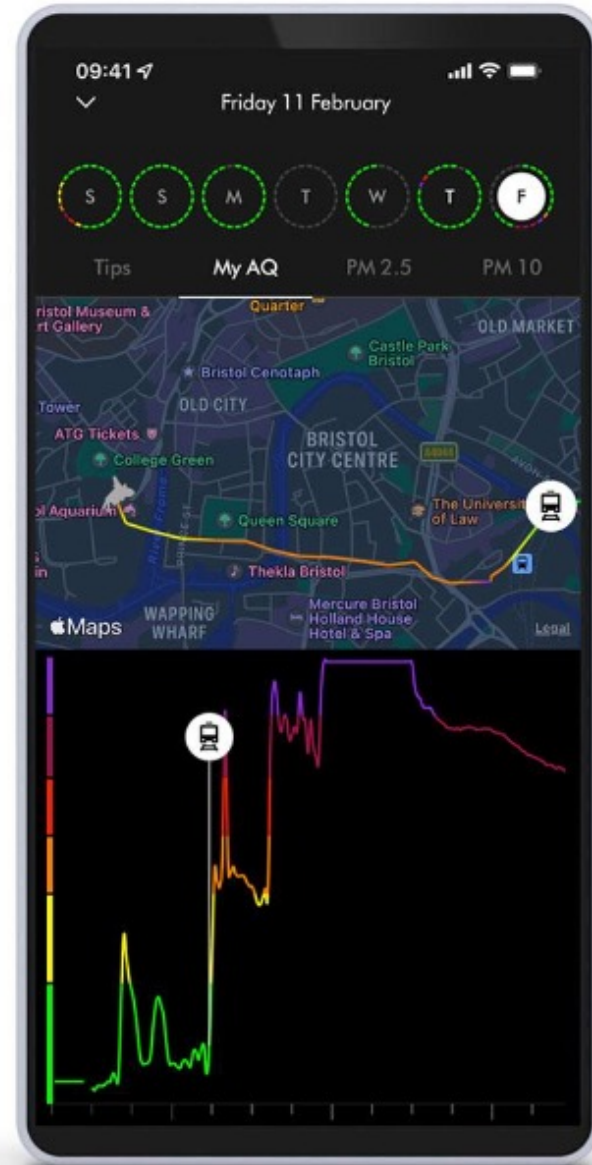
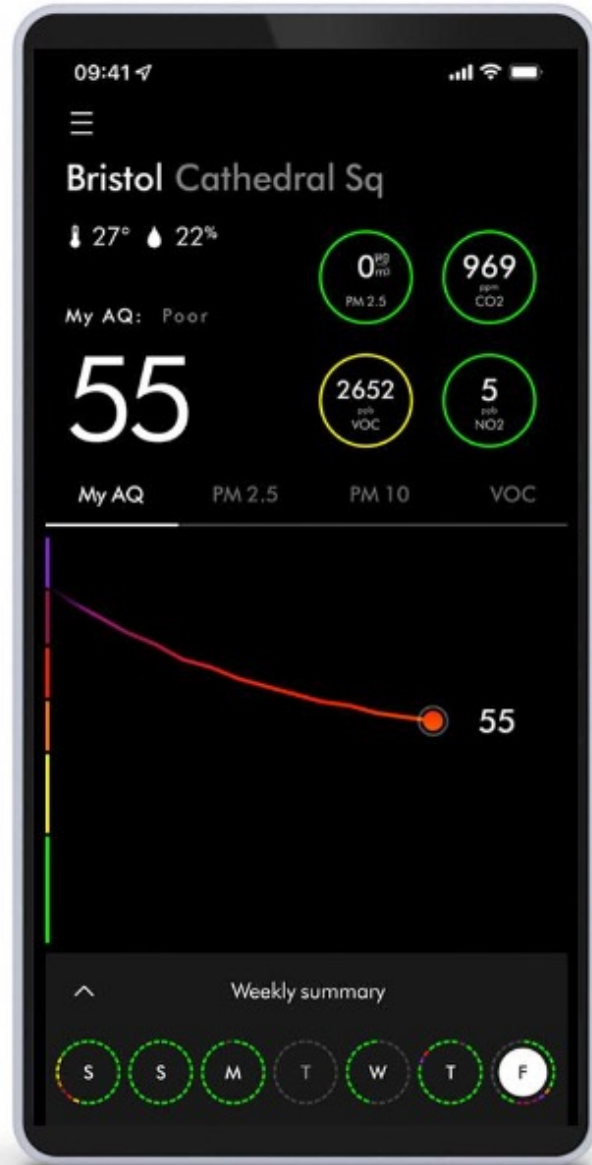
- Bluetooth Classic and BLE
- Air quality sensors
- Air purification
- Noise Cancellation
- And more??



- Onboarding journey
- Sensors
- OTA
- Faults
- State Machine
- More??







- Embedded Linux
- Live air quality data
- Motion sensor
- GPS
- Historical air quality



When to use product emulators?  
How to create your own prototyping platform?  
Design with change in mind!

# Questions?



# Thank you!



**Moe F. Sani**

Lead Embedded Software Engineer |  
Industrial Mentor

