



# Technology Update: IoT

Andy Duncan

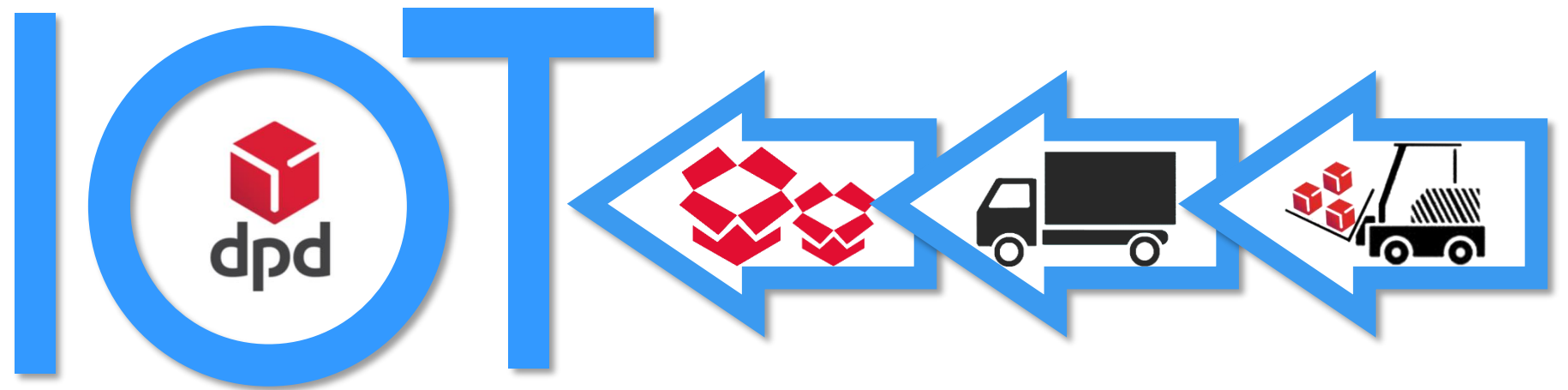
IT Interface Manager

# AGENDA

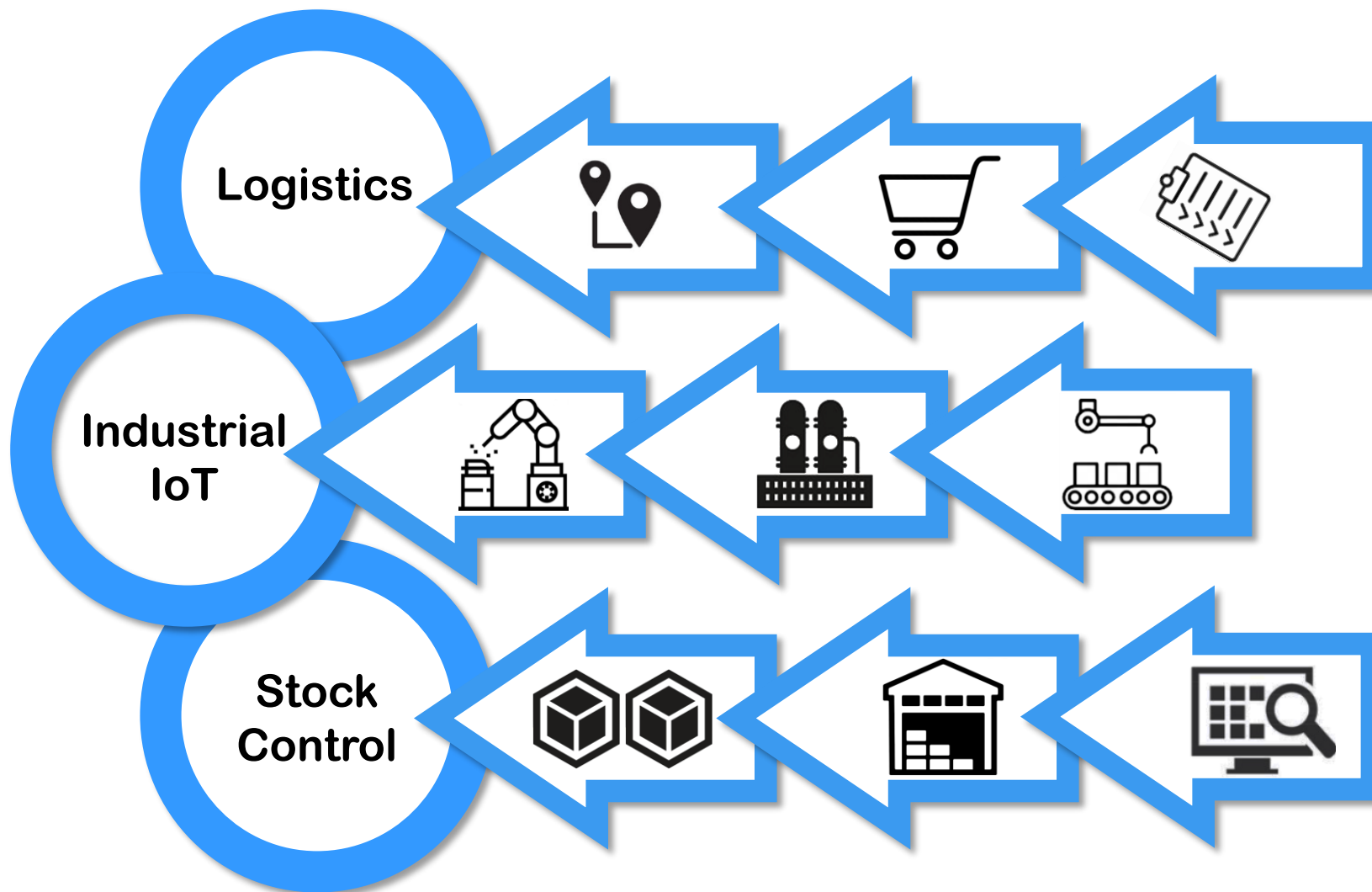
- IoT
  - What does IoT mean to you
  - IoT Architecture
  - IoT & 5G
  - Spitfire's plans



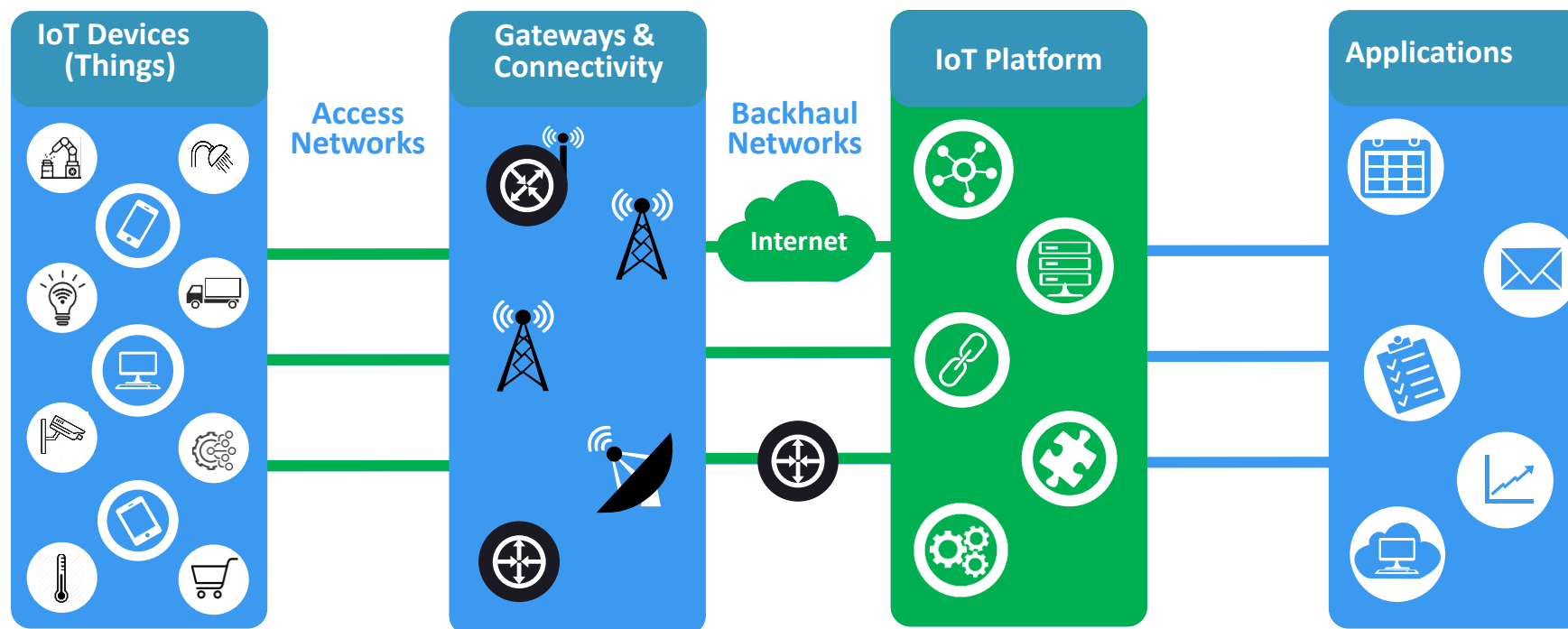
# What does IoT mean to you?



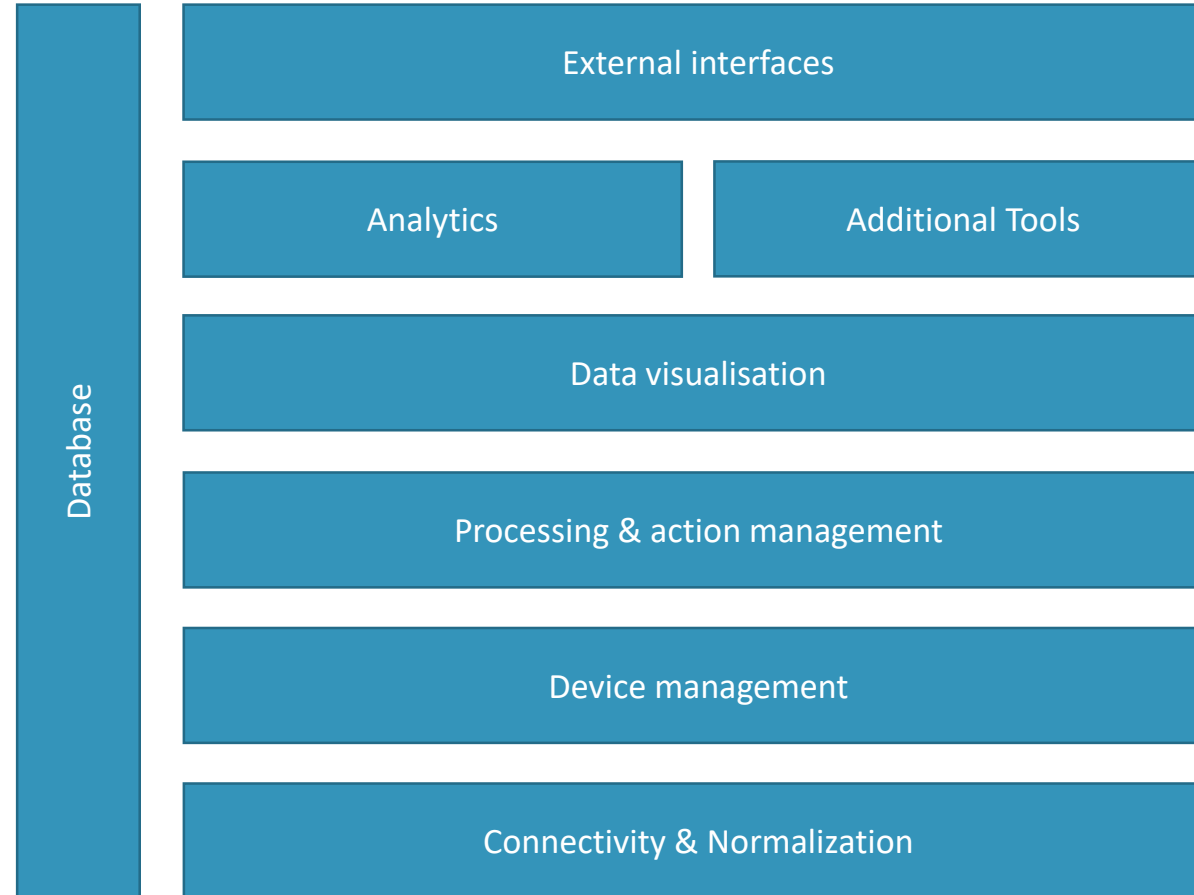
# What does IoT mean to you?



# IoT – The four pillars

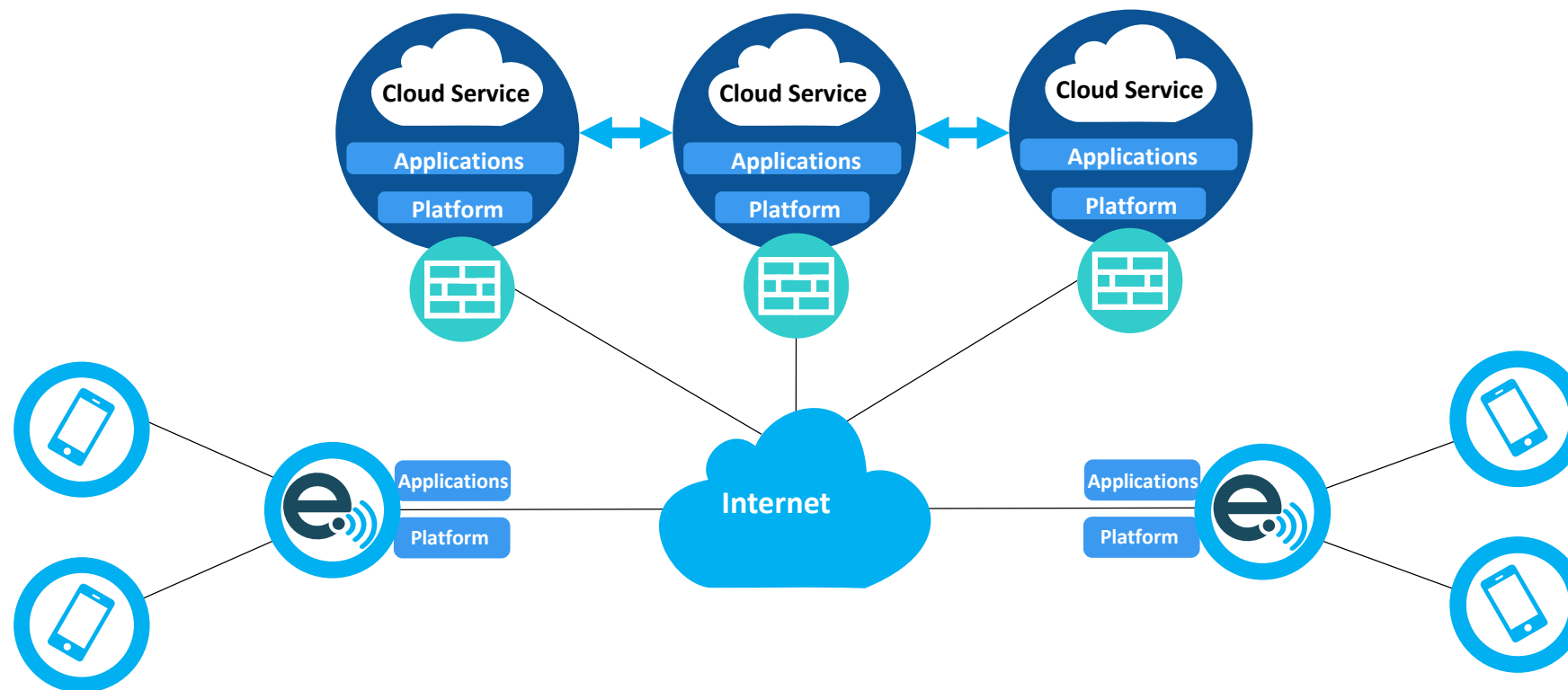


# IoT Platform



# IoT Platform

## The advantage of On-net



# 5G & IoT

- 5G will enable more advanced IoT use cases
  - Latency less than 10ms
  - Device density 1000x 4G
  - Theoretical speeds up to 2.5Gbps
  - Tiered service





# 5G Use Cases

- Birmingham NHS trust are trialling remote patient diagnostic using Augmented Reality (AR) in ambulances
  - Requires connectivity that supports 4K video resolution
  - Critical service that needs prioritised traffic
- IoT enabled street furniture?
  - IoT is forecast to bring millions of devices online. The density capabilities of 5G will support this growth
- Driverless cars?
  - Device to device systems with real time interaction need low latency, always-on connectivity



# Spitfire and IoT

- We will continue to offer and enhance our connectivity portfolio
  - Ethernet
  - Broadband
  - Mobile
- We understand the benefit of an on-net IoT platform and will be developing solutions to address this need
- We welcome input from partners at any stage of their IoT development



# Takeaway Points

- IoT is here and there is a market opportunity for all partners
- Spitfire's *Mobile Data Access* products now provide static IPs
- We'd love to hear about any use cases you are working on

