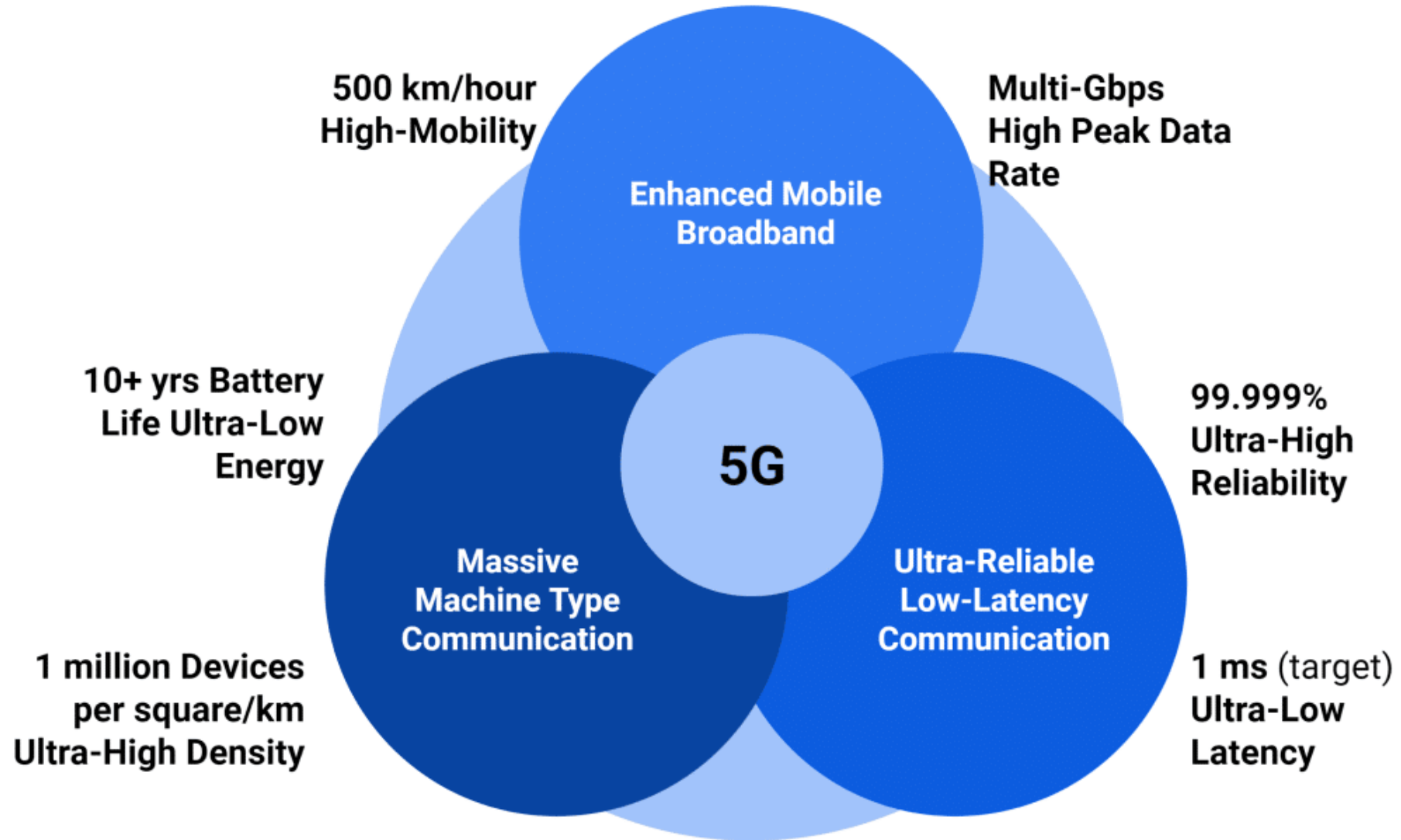


Building a fully connected world is not easy!

We are here to help ...

To Killer Application του 5G
Dimitris Kolokotronis

What is 5G? Machine – Reliable – Low Latency = Critical Comm



What is a Killer Application? ...a SW hand-in-hand with a device!

A killer application, or killer app, is a new software application used to attract consumers and motivate new hardware device purchases. Often innovative and cutting edge, killer apps are known for creating a large following. Over time, killer apps become an essential factor related to hardware or device purchases.

Year	Computing Evolution	Killer App	Company	Device	Connectivity
90's	Computing	Windows, Office	Microsoft	Personal Computer	No connectivity
00's	Connected Computing	Search engine, e-mail	Google	Personal Computer	Dial-up
10's	FAST Connected Computing	Video, social media	OTT's	Personal Computer	DSL (LAN)
20's	ULTRA FAST Connected Computing	?	?	?	FTTH
00's	Mobile Connected Computing	Search engine, e-mail	BlackBerry	Blackberry	2G - 3G
10's	FAST Mobile Connected Computing	Video, social media	Apple	iPhone (1 st Smartphone)	3G - 4G
20's	ULTRA FAST Mobile Connected Computing	?	?	?	5G

A successful application created on a device, and a successful device created on an application

What is the 5G terminal device that will support the Killer App?
...or what is the Killer App that will create the 5G terminal device?



None of these!

1G & 2G



1G: Low Capacity Voice

2G: High Capacity Voice

3G & 4G

3G: Low Capacity Data

4G: High Capacity Data

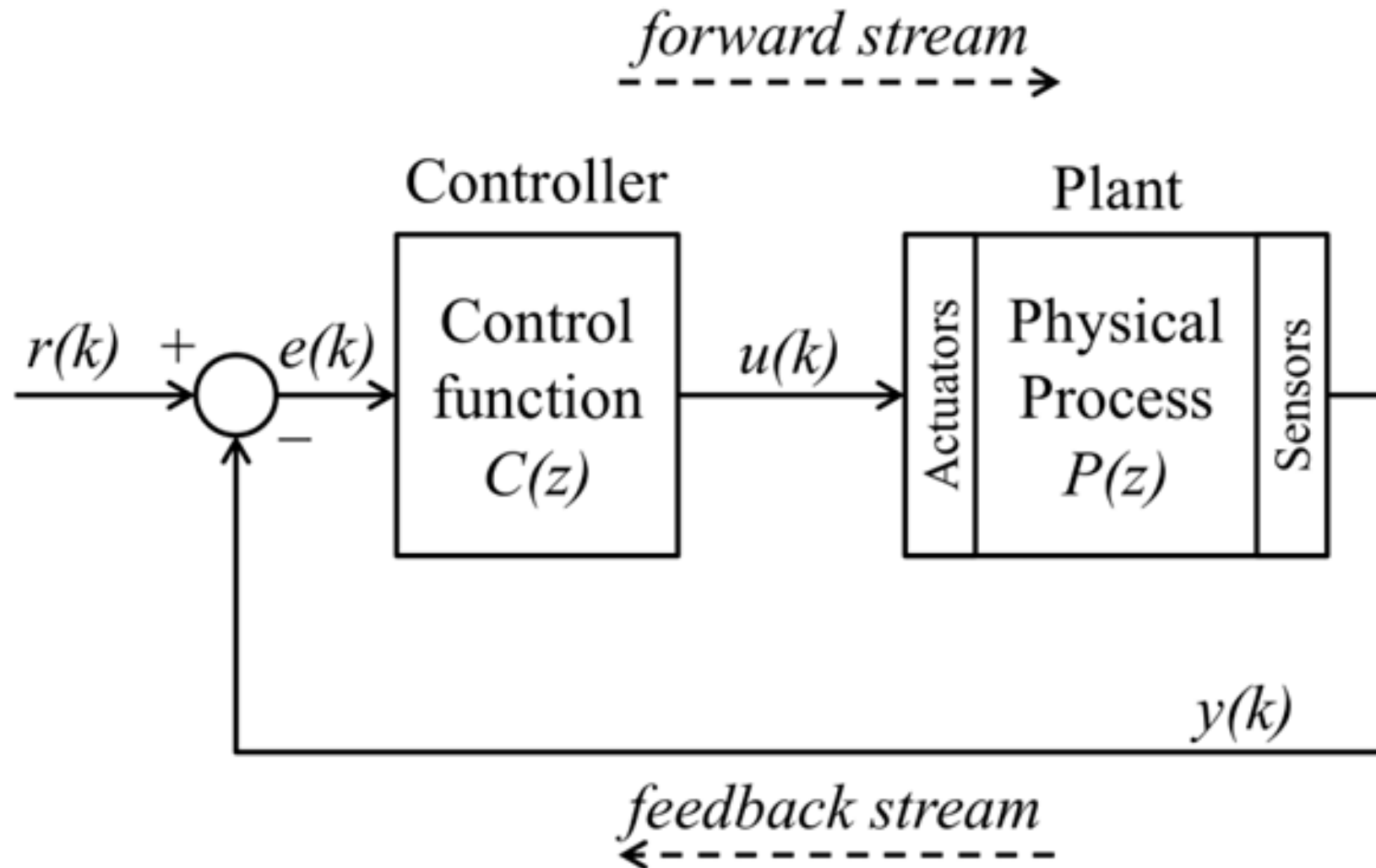
5G

A “things” control mobile technology

→ eMBB, mMTC, uRLLC



A Control System...



A candidate 5G terminal device!

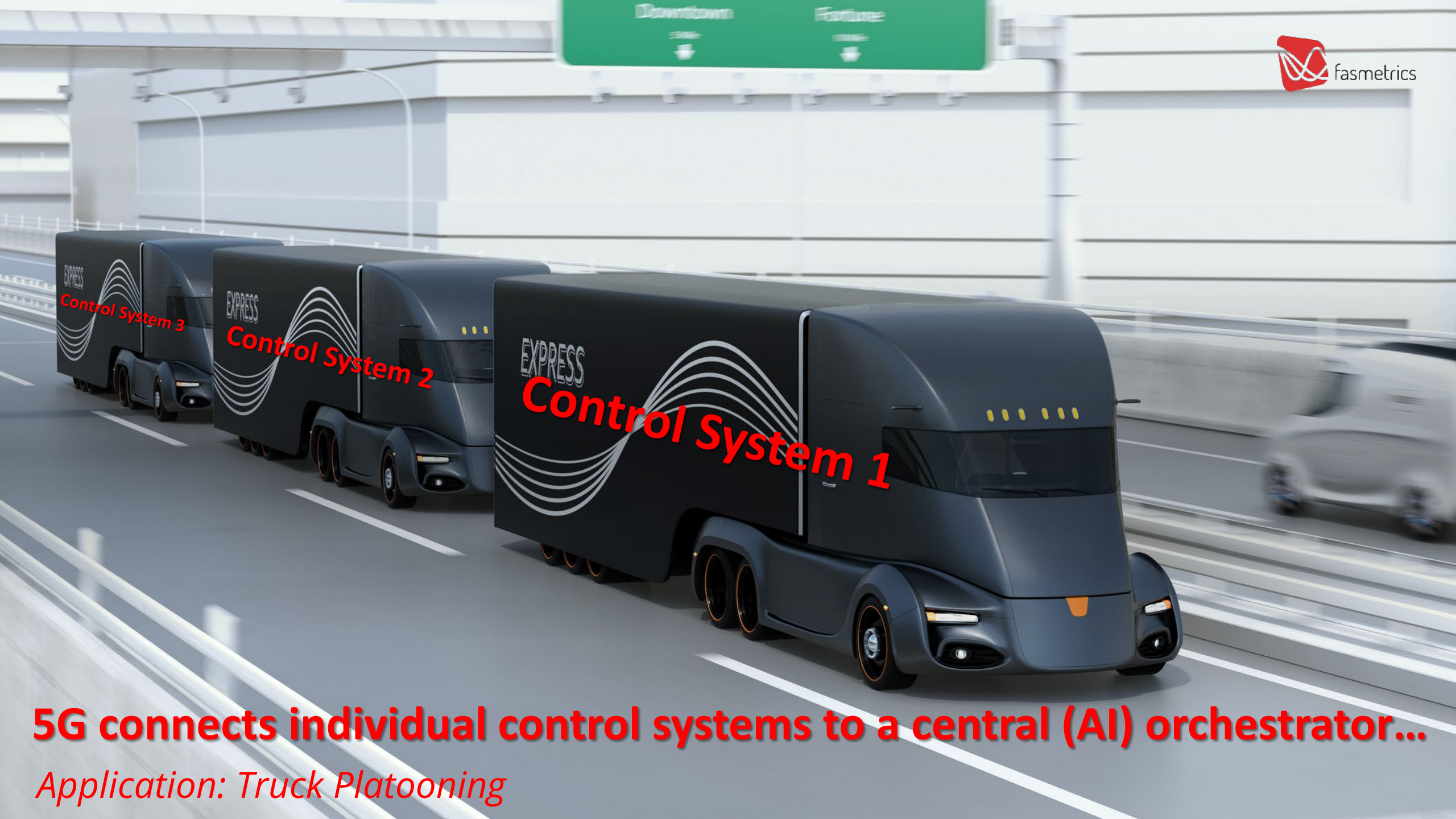
A machine that can be controlled in Real-Time



5G Inside

...the Killer App?

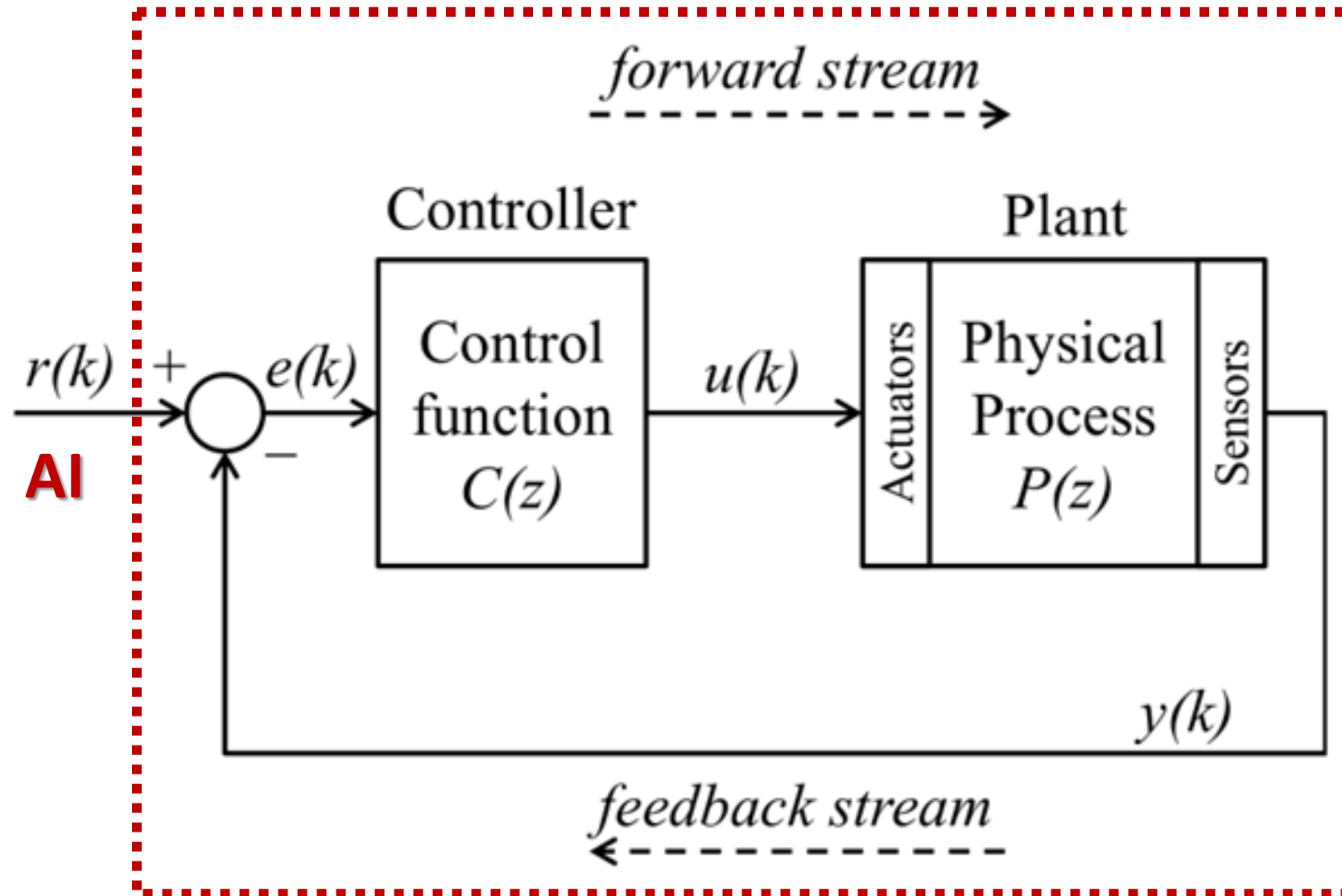




5G connects individual control systems to a central (AI) orchestrator...

Application: Truck Platooning

A Control System... The 5G Terminal Device

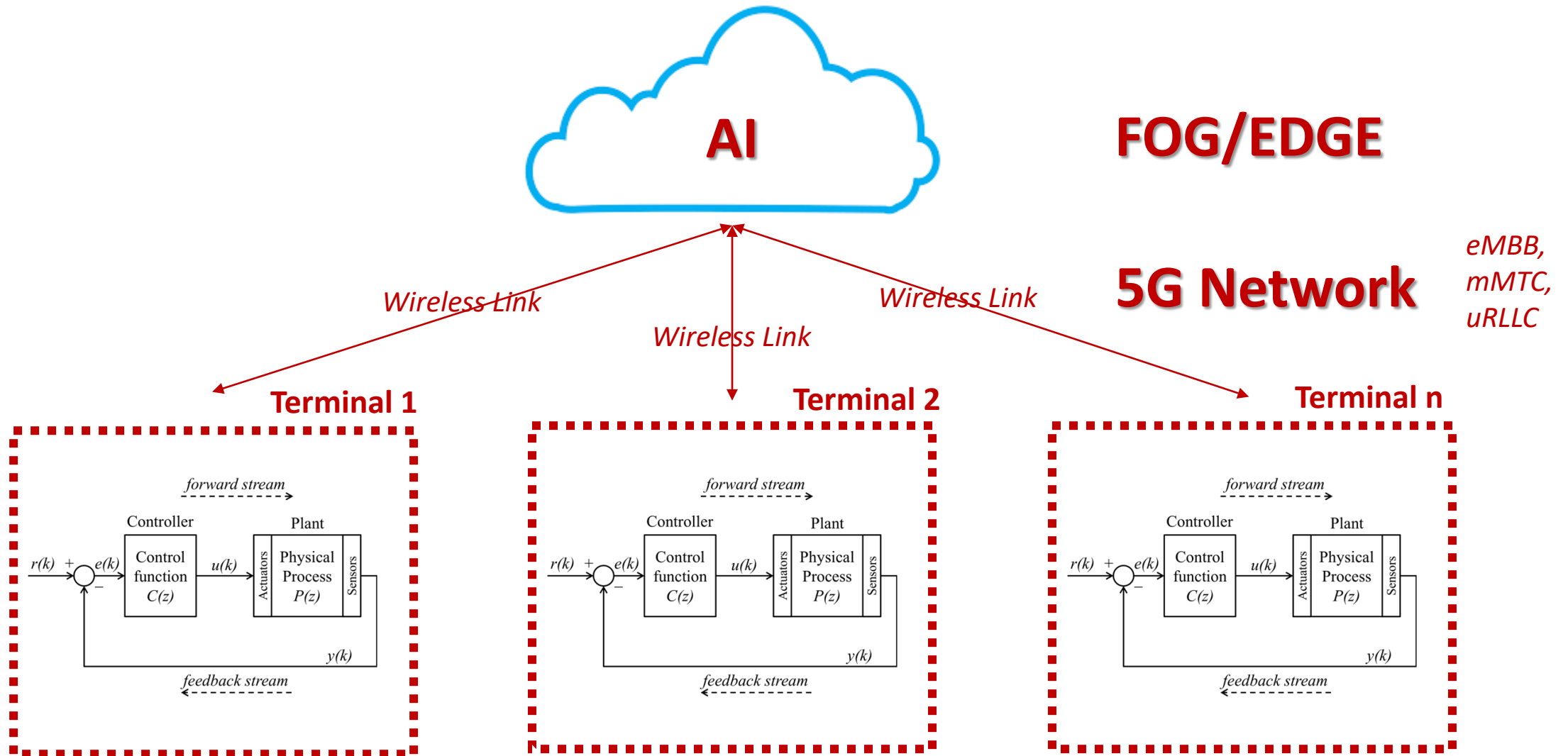


Terminal Device

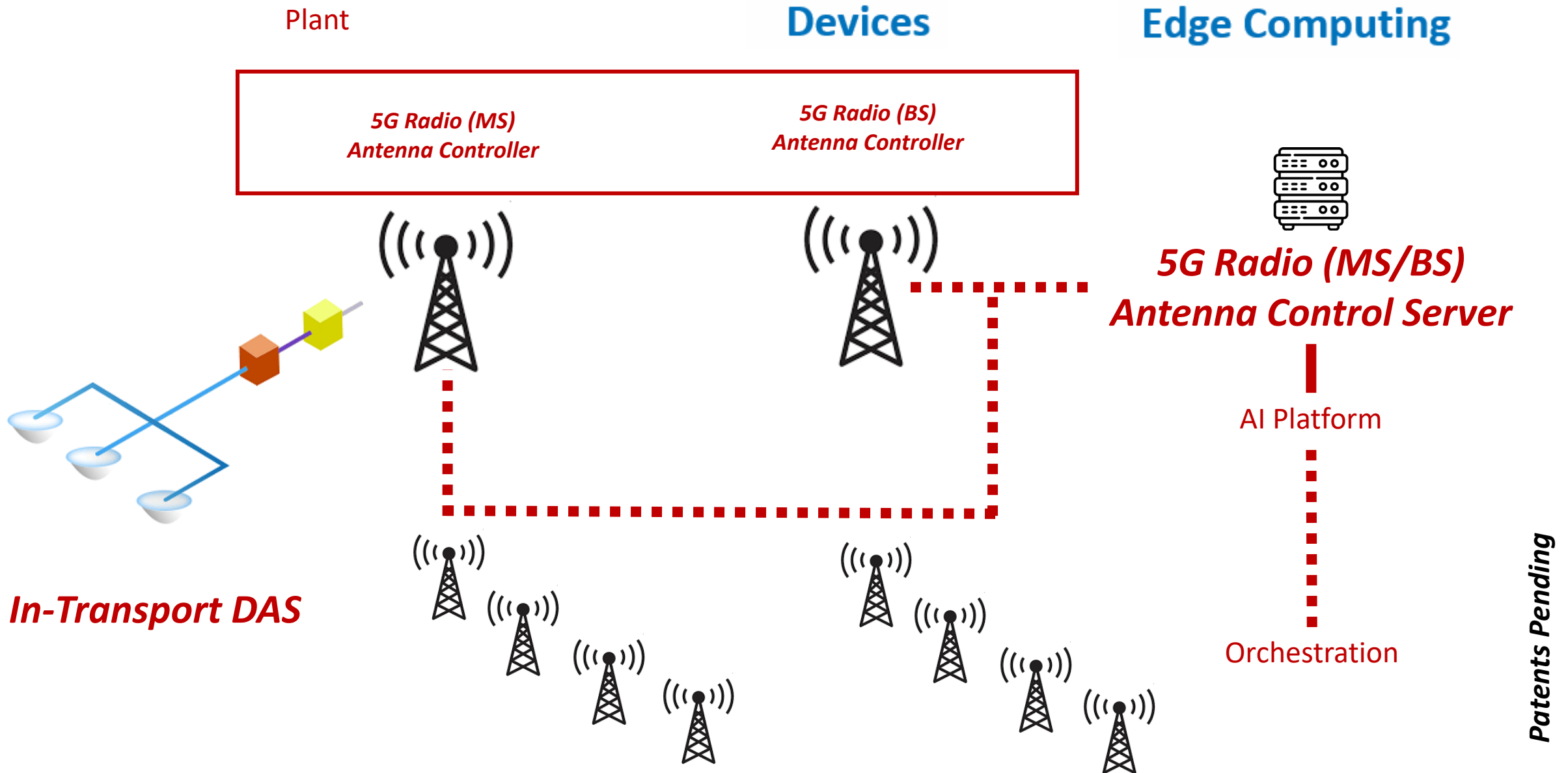
Artificial intelligence is the simulation of human intelligence by machines...

Robots

Terminals & Applications (Killer or Not)



A Control System... for the Network itself: Antenna Control!



Application: In-Ship 5G Network Operation for Ultimate Connectivity



**Is this 5G Application going to be Killer for
*In-Transport Coverage?***

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Thank you for listening