



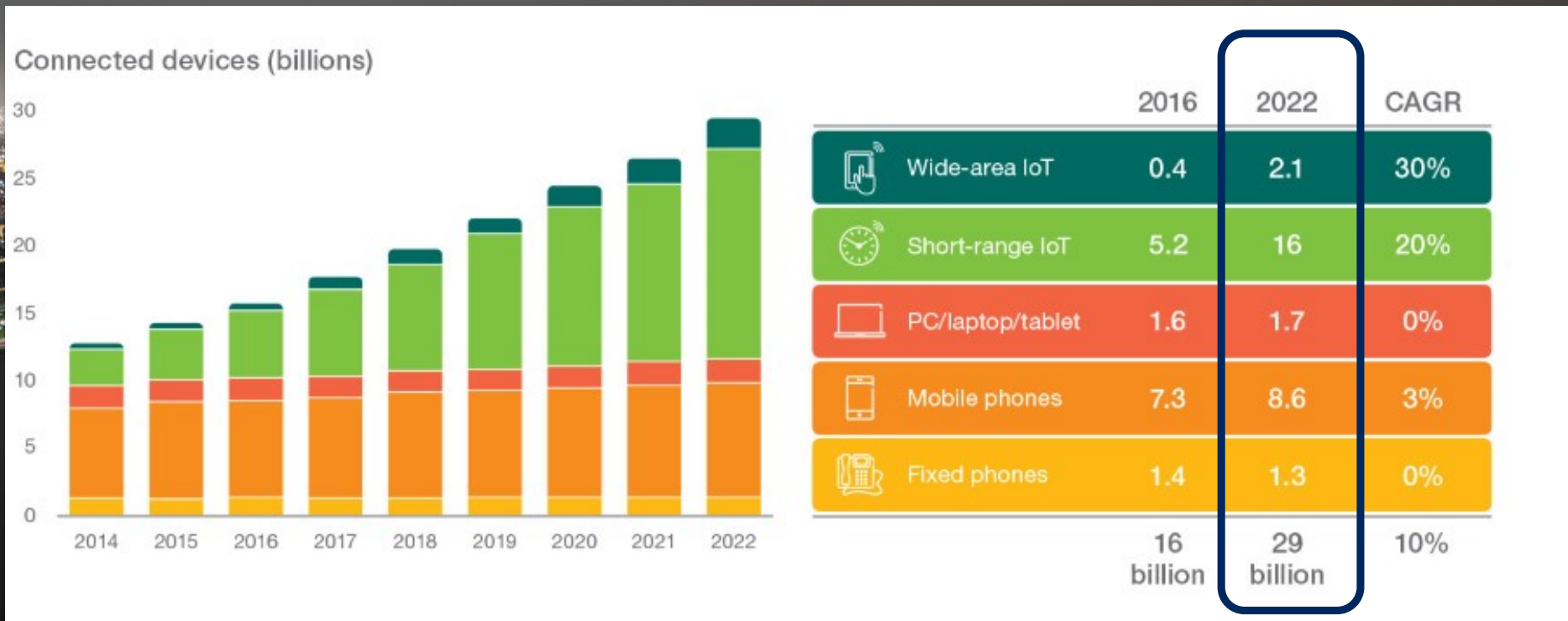
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5G AND IOT SECURITY

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IOT FORECAST

70% of wide-area IoT devices will use cellular technology in 2022



In 2018, mobile phones are expected to be surpassed in numbers by IoT devices
Source: Ericsson Mobility Report 2016

THE VALUE OF IOT



Sensors



Actuators



Mission critical



Autonomous cars

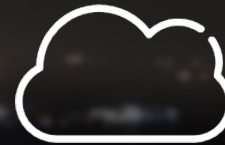


Smart cities

5G SECURITY CHARACTERISTICS



New trust model



New service delivery model



Increased privacy concerns



Evolved threat landscape

“What characterizes 5G, even more than 4G, is that it will have a crucial role in operation of society.”

- Ericsson White Paper “5G Security” 2015

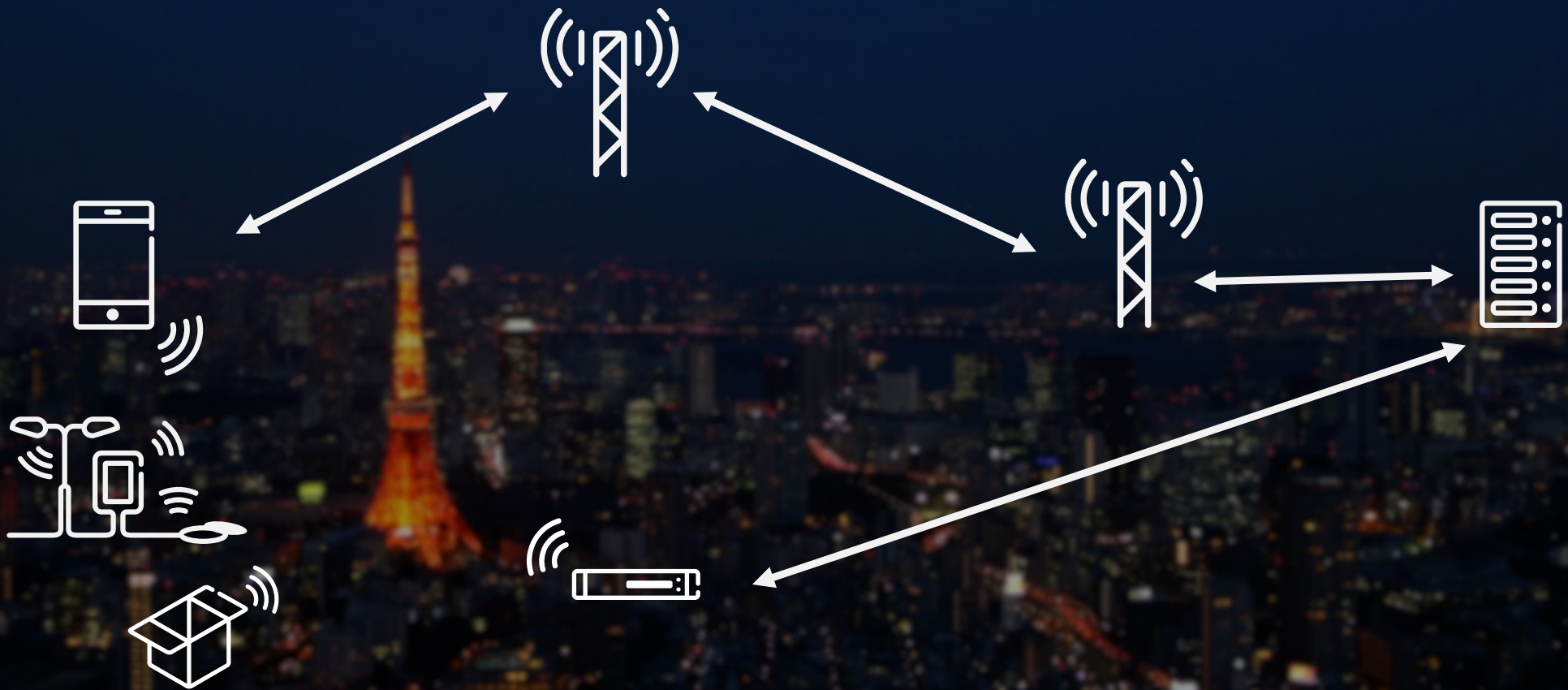


NEW TRUST MODEL





NEW TRUST MODEL





NEW SERVICE DELIVERY MODEL



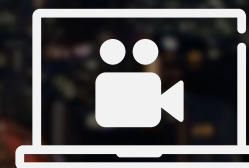


INCREASED PRIVACY CONCERNS





EVOLVED THREAT LANDSCAPE



SECURITY IN THE IOT VALUE CHAIN



New business models

End-to-end security

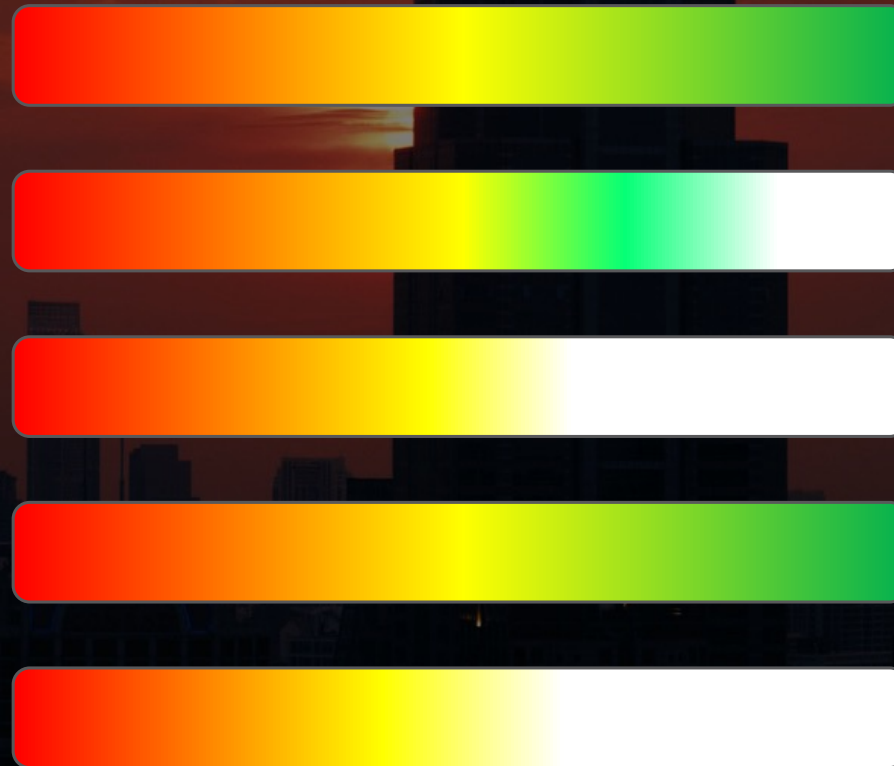
Lifecycle management

Heterogeneous access technologies

Hardware root of trust (RoT)

- Ericsson White Paper "IoT Security" 2017

IOT HEALTH CHART



TRUST STACK, A HOLISTIC APPROACH



KEY TAKE-AWAY



- 1 Secure your Cloud with Trusted Computing Technologies
- 2 Secure your IoT with Trusted Execution Environment Technologies
- 3 Secure your Data with Strong Identity Management
- 4 Secure your Connectivity using Proven Solutions like 3GPP



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