

ITU Regional Cybersecurity Forum for Europe and CIS

27 - 28 February 2020
Sofia, Bulgaria

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ITU Regional Initiative for Europe on enhancing trust and confidence
in the use of ICTs

ITU Regional Initiative for CIS on the development and regulation of
infocommunication infrastructure to make cities and human settlements
inclusive, safe, and resilient

Conception of the IoT Cybersecurity Architecture.

Is eSIM a solution to the challenges?

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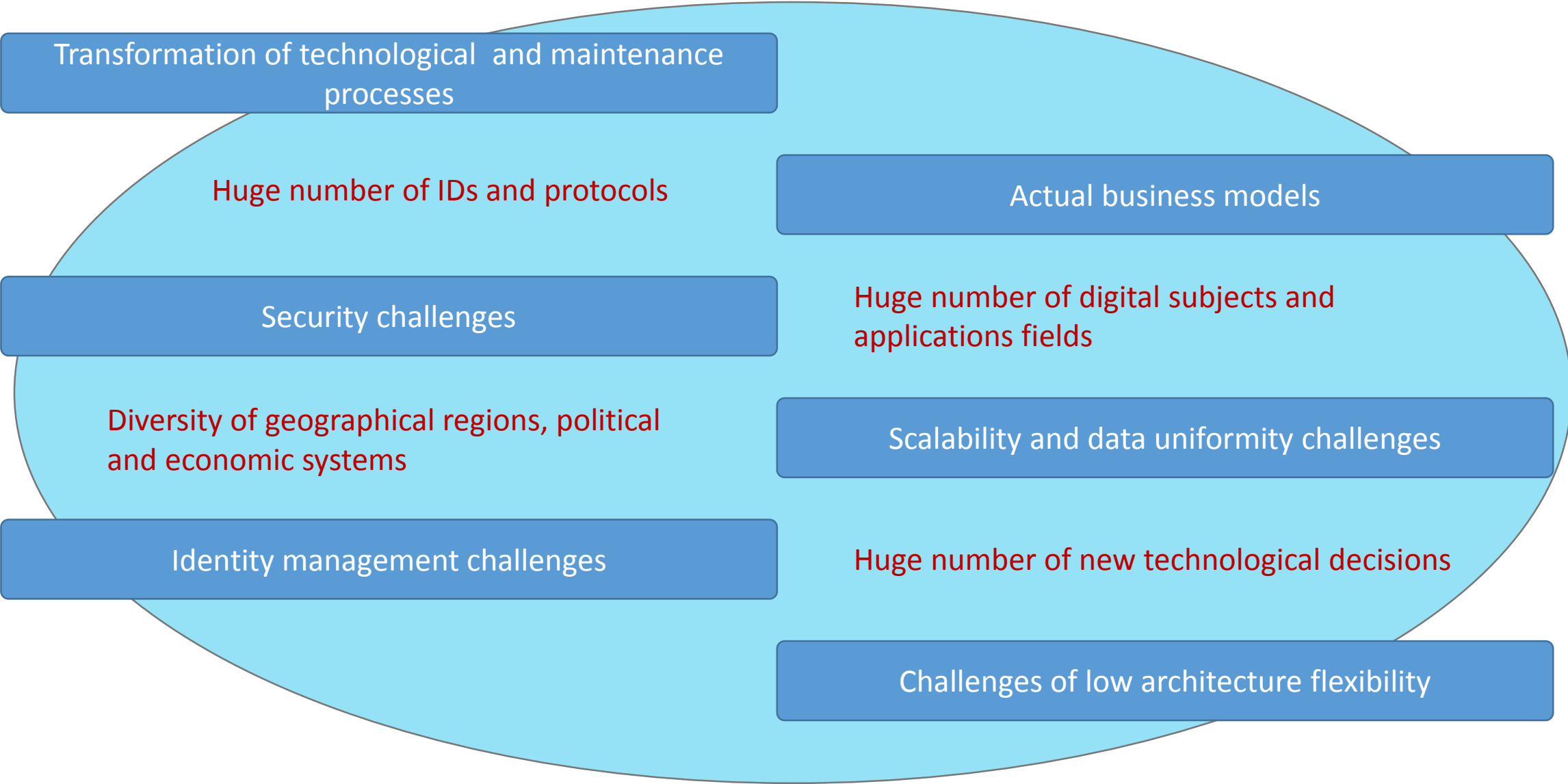


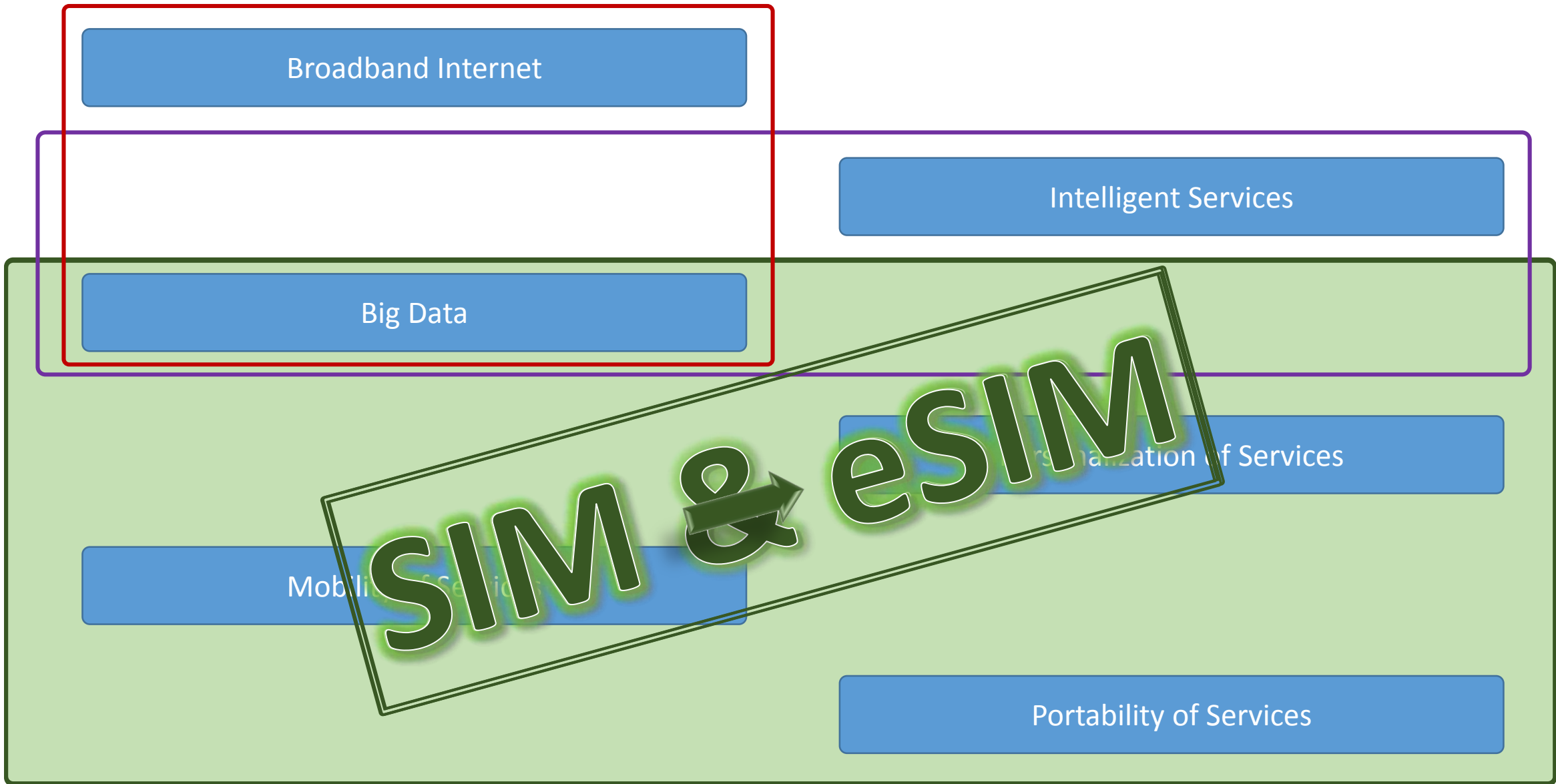
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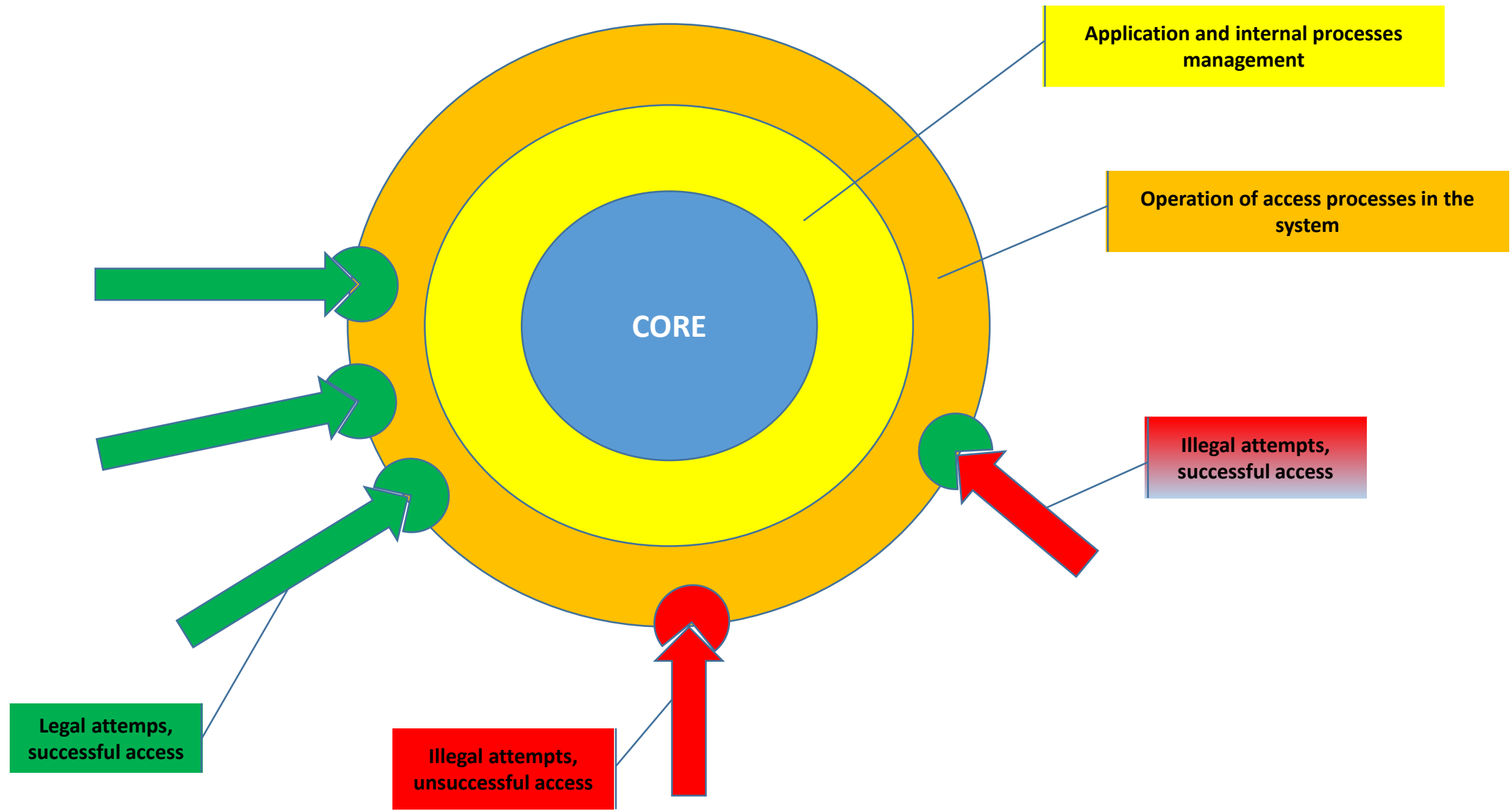
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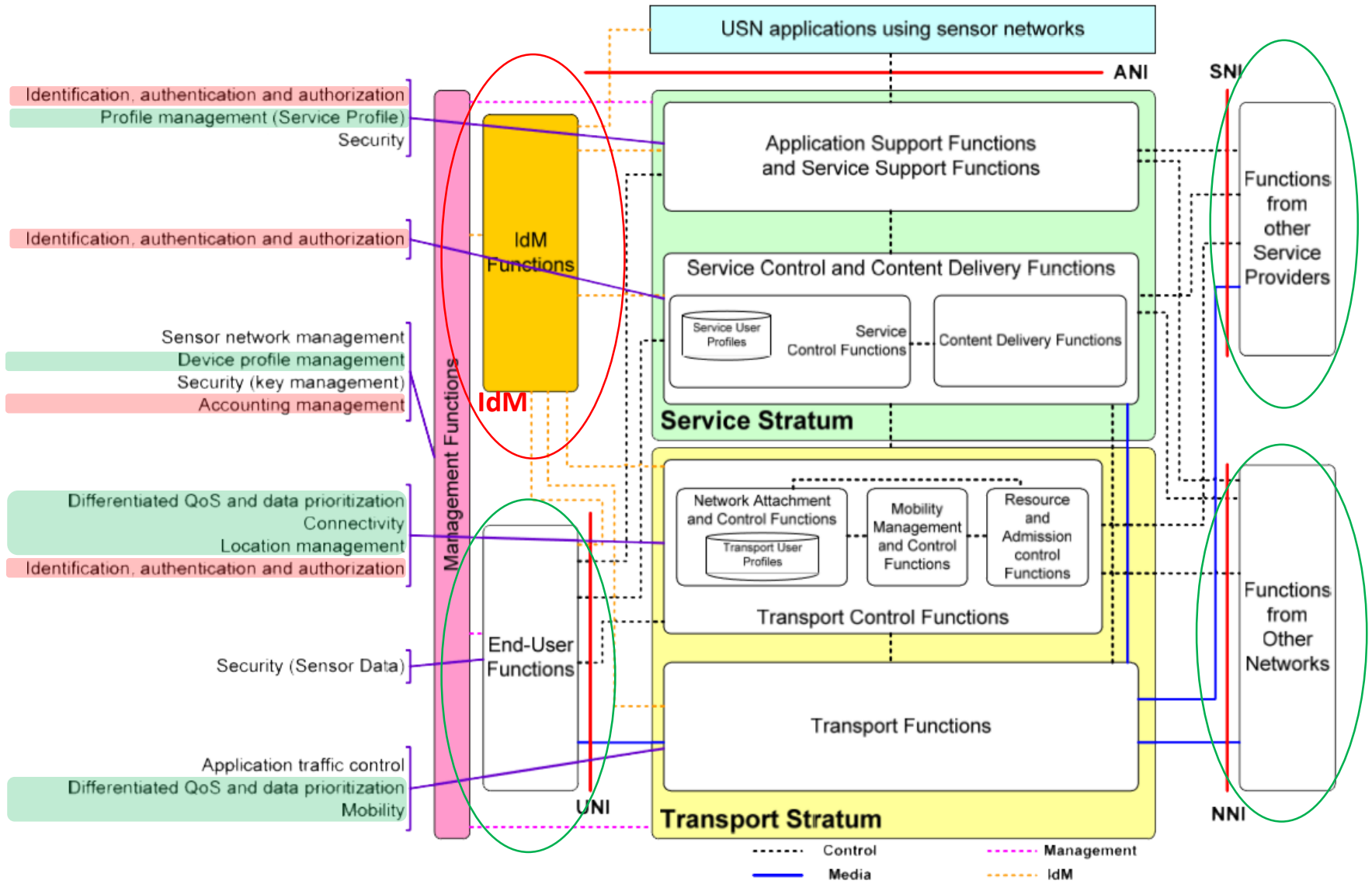




Where does security troubles begin point?



Overall functional architecture model

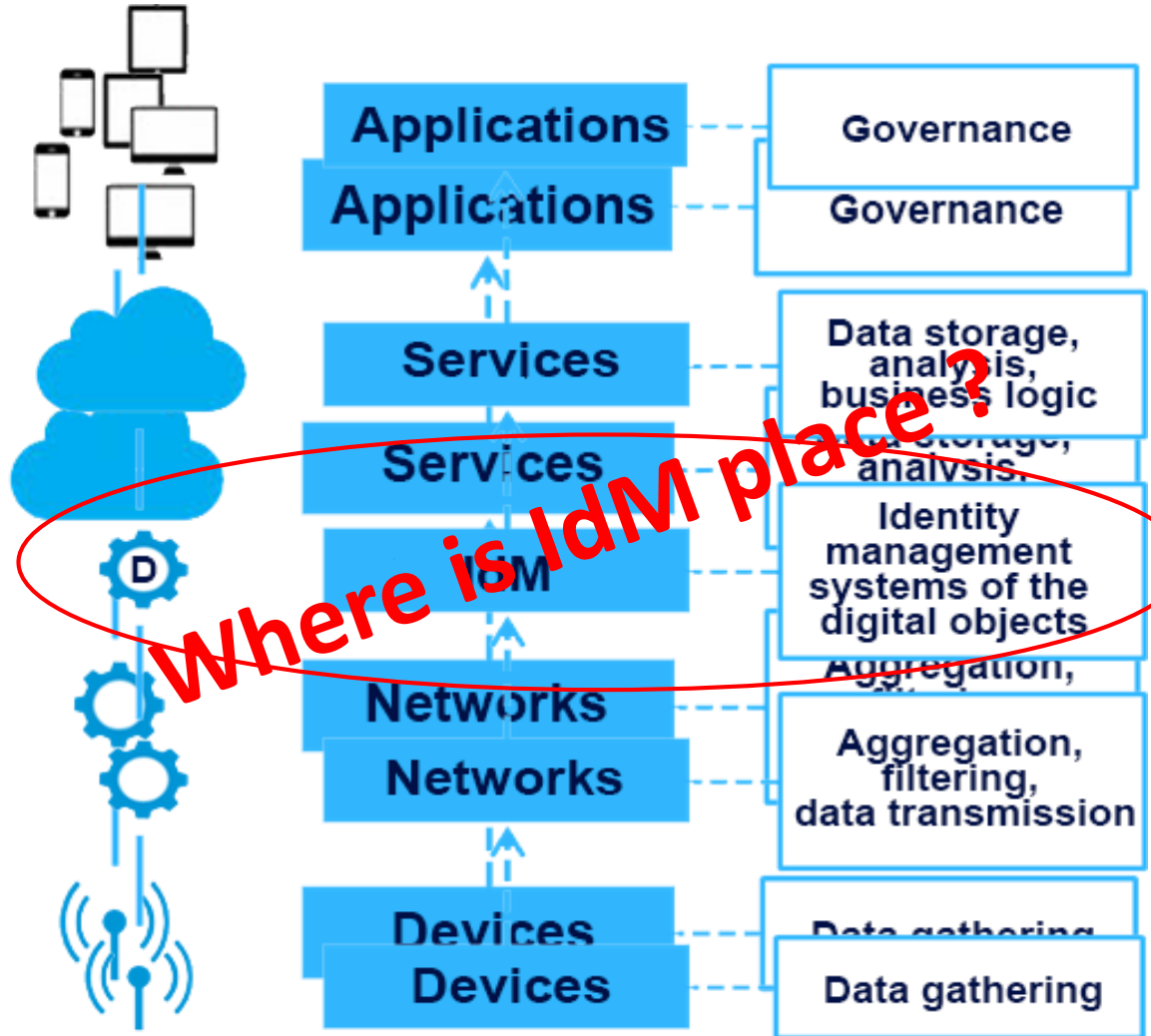


Recommendation Y.2026 (12)
Functional requirements and architecture of the next generation network for support of ubiquitous sensor network applications and services

ANI	Application Network Interface
USN	Ubiquitous Sensor Network
UNI	User network interface
SNI	Service node interface
NNI	Network-to-network interface
IdM	ID Management

IdM Place in General Architecture

Security architecture begins with authentication, authorization, verification, and validation as subject matter processes of the identification management and the identifiers management



Security Architecture Begins Where IdM Begins

What is an eSIM as an IdM processes object?

Does eSIM have unique new features as an IdM processes object?

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SIM – Subscriber Identity Module – storage for identification network subscribers for an ONE E.164 ID

eSIM – storage for identification network subscribers up to FIVE virtual E.164 IDs

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eSIM and SIM can be used in parallel on one device

eSIM allows to automatically set the previous number on a new device

eSIM allows to automatically set the previous number on a new device

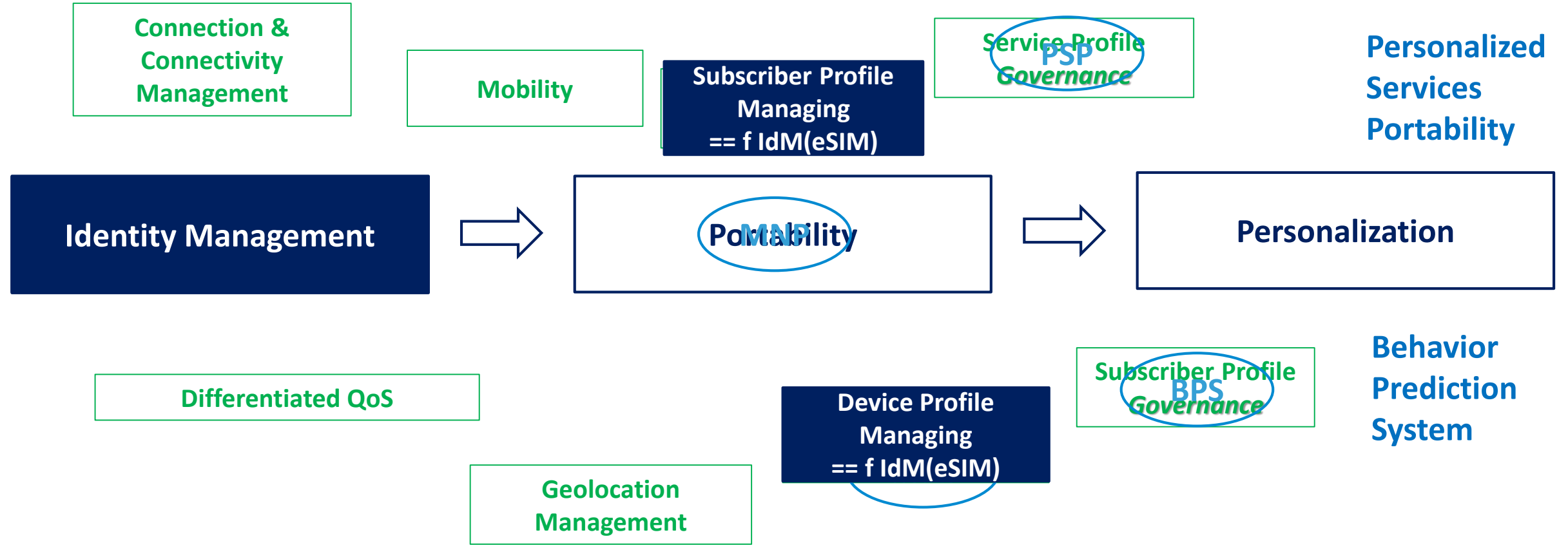
eSIM has unique profile that can't be changed by simple operation with a SIM-card

eSIM doesn't allow the use of the roaming feature if there is no appropriate network

eSIM allows you to remotely configure any gadget

eSIM allows to remotely configure any gadget

Place and role eSIM in the personalization as a services development trend





Thanks!
Questions?

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