Data Retention for Everyone

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TAKING YOU FORWARD

The world is changing
Our basic needs are the same

We want a

Safe Society

and

the right to

Privacy

Our ways to communicate are changing

The world's

largest machine

The Telecom Network

has become

the world's largest

marketplace

The Internet

Our behaviors are changing

This new
marketplace
involves all kind of activities
such as

**Shopping, Socializing,
Entertainment**

but also

Serious Crime

Criminals' behaviors are changing

New ways

to communicate

facilitate

Criminal Activities

The evidence of crime is changing

Fingerprints
become

"Electronic

Fingerprints"

and
field work, search raids
become

Desk Work

Investigation methods need to change …

Law Enforcement

needs new

Work Methods

and better

TOOLS

EU has decided on a common approach

EU Directive 2006/24/EC

Input for national regulations and ETSI standard

■

Requires more data than billing provides (Article 5)

■

Requires strict Data Protection and Data Security (Article 7)

■

Requires prompt data delivery "without undue delay" (RDHI)

When minutes counts …
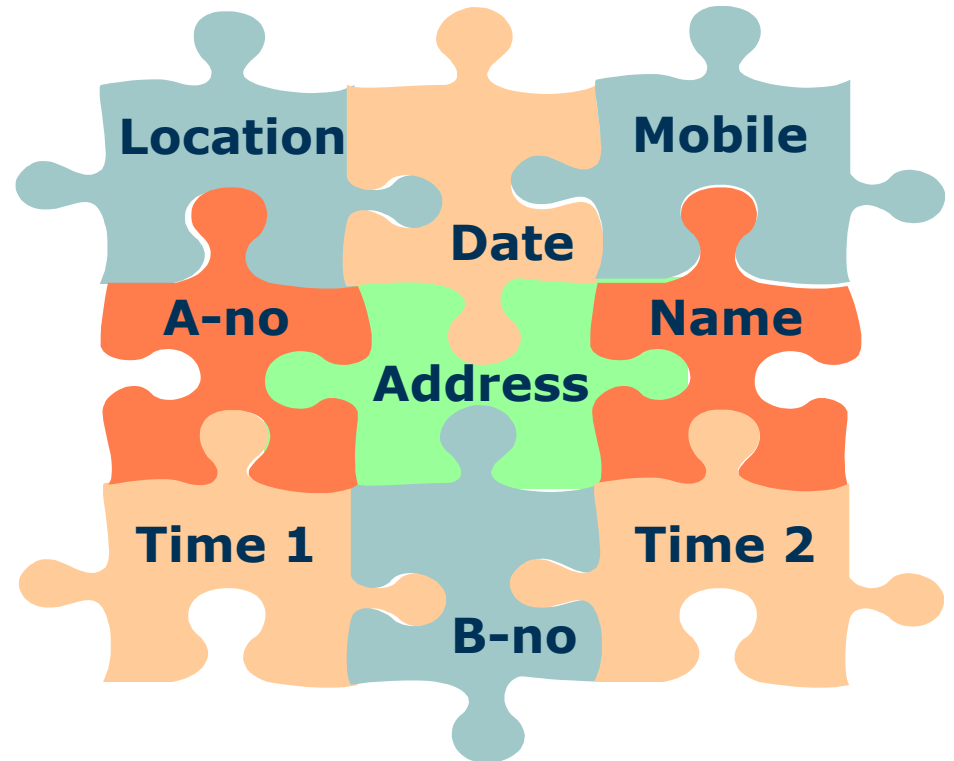

12 min …

Police arrives !

32 min …

Pieces of info. secured

47 min …

Searching for additional pieces

52 min …

The result is being analysed

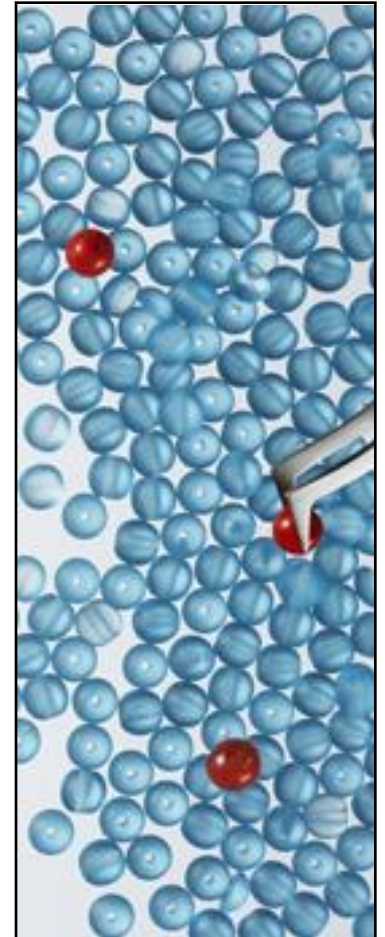Location | Mobile | Date | A-no | Name | Address | Time 1 | Time 2 | B-no

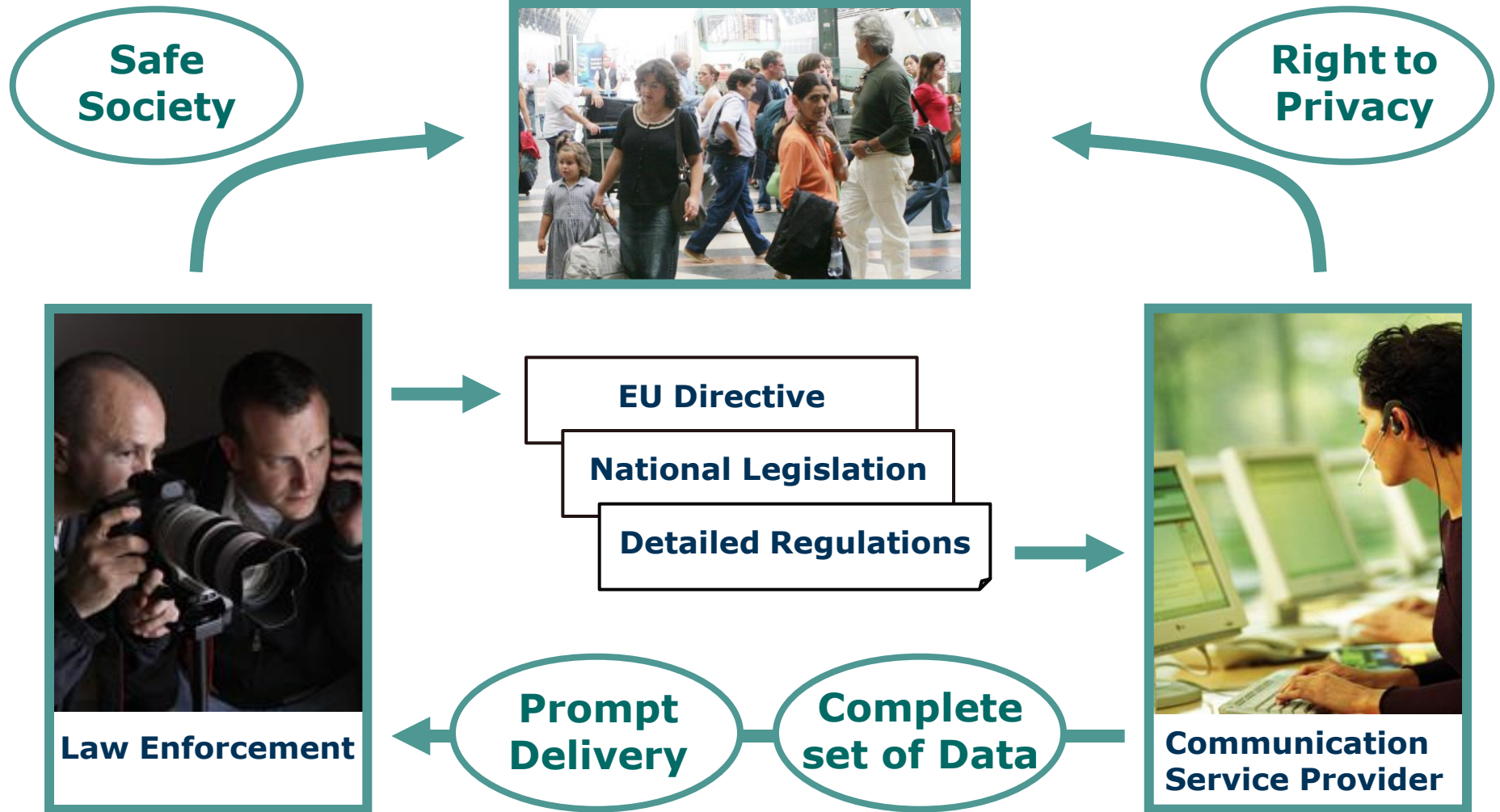**1 hour later …**

The first crackdown !

Data Retention
A crucial investigation tool

- The global communication network is a gigantic puzzle of "electronic fingerprints"

- A few pieces in the puzzle are crucial to solve a certain crime

- The entire puzzle must be retained in order to secure the critical pieces

- This requires high
  - ✓ data availability
  - ✓ data integrity
  - ✓ data protection

Data Retention
Balance between privacy and a safe society

Safe Society

Right to Privacy

EU Directive

National Legislation

Detailed Regulations

Law Enforcement

Prompt Delivery

Complete set of Data

Communication Service Provider

Communication Service Providers

- Need to comply with an existing or updated Data Retention law - and detailed national regulations

- Need to build an appropriate and cost efficient Data Retention solution

- Need to maintain customer trust by securing the subscriber's right to privacy

Uninterrupted Data Retention requires a future proof solution !
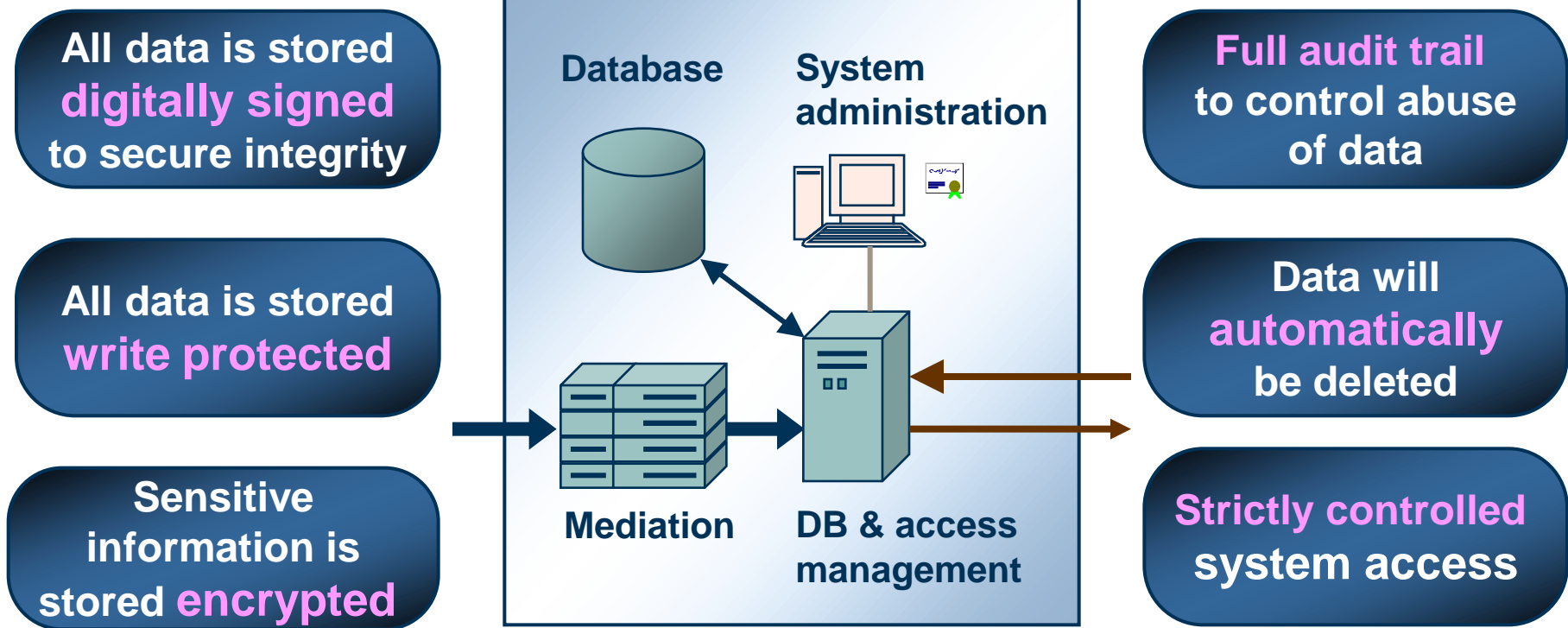
Ericsson offering
ADRS is created for Data Retention

- ADRS is a solution dedicated to Data Retention

- ADRS is developed to comply with regulatory requirements derived from the EU Directive

- Optimized characteristics in terms of availability and performance, security and scalability

- Scalable for regulatory needs on different levels

Ericsson ADRS for Everyone

ADRS Core System

All data is stored digitally signed to secure integrity

All data is stored write protected

Sensitive information is stored encrypted

Database

System administration

Mediation

DB & access management

Full audit trail to control abuse of data

Data will automatically be deleted

Strictly controlled system access

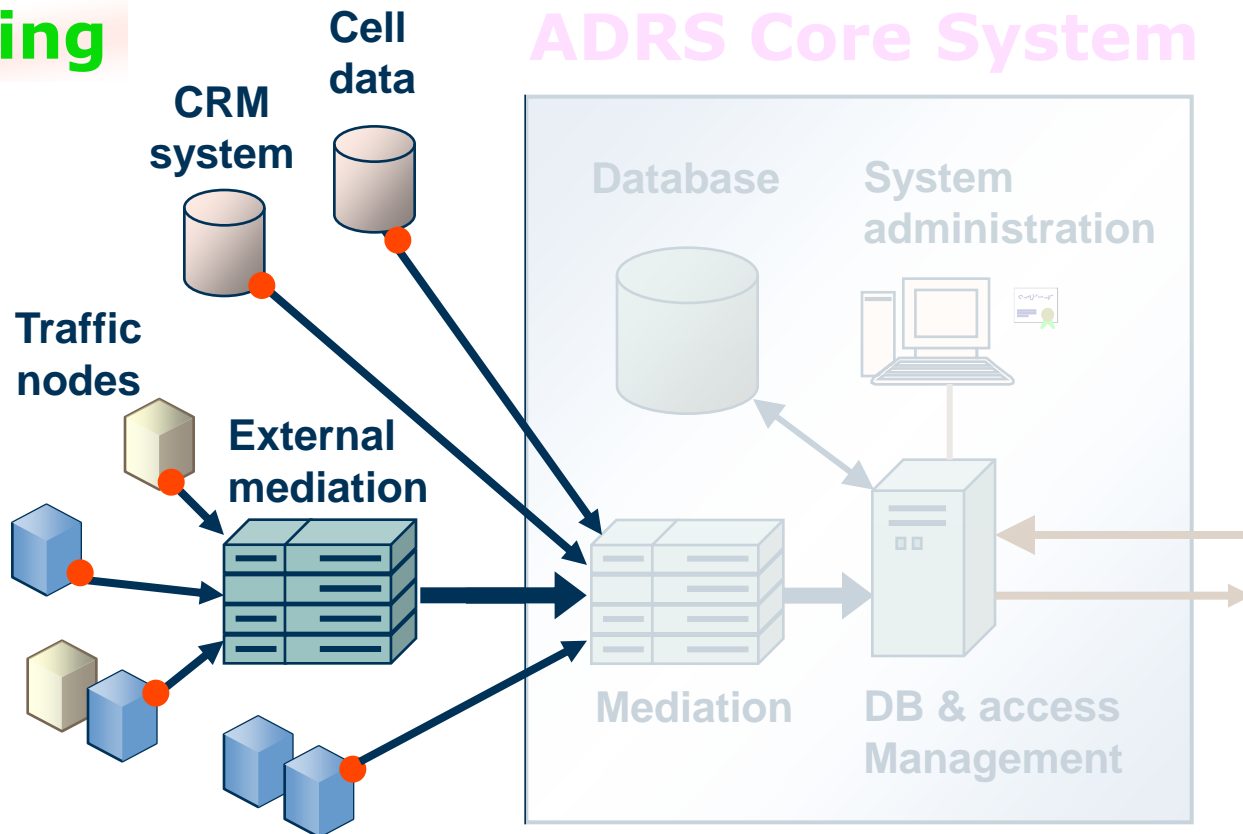**Uncompromised security in order to guarantee subscribers' Right to Privacy**

Data Collection

Optional Offering

Valid for **all type of nodes**

Valid for nodes from **any supplier**
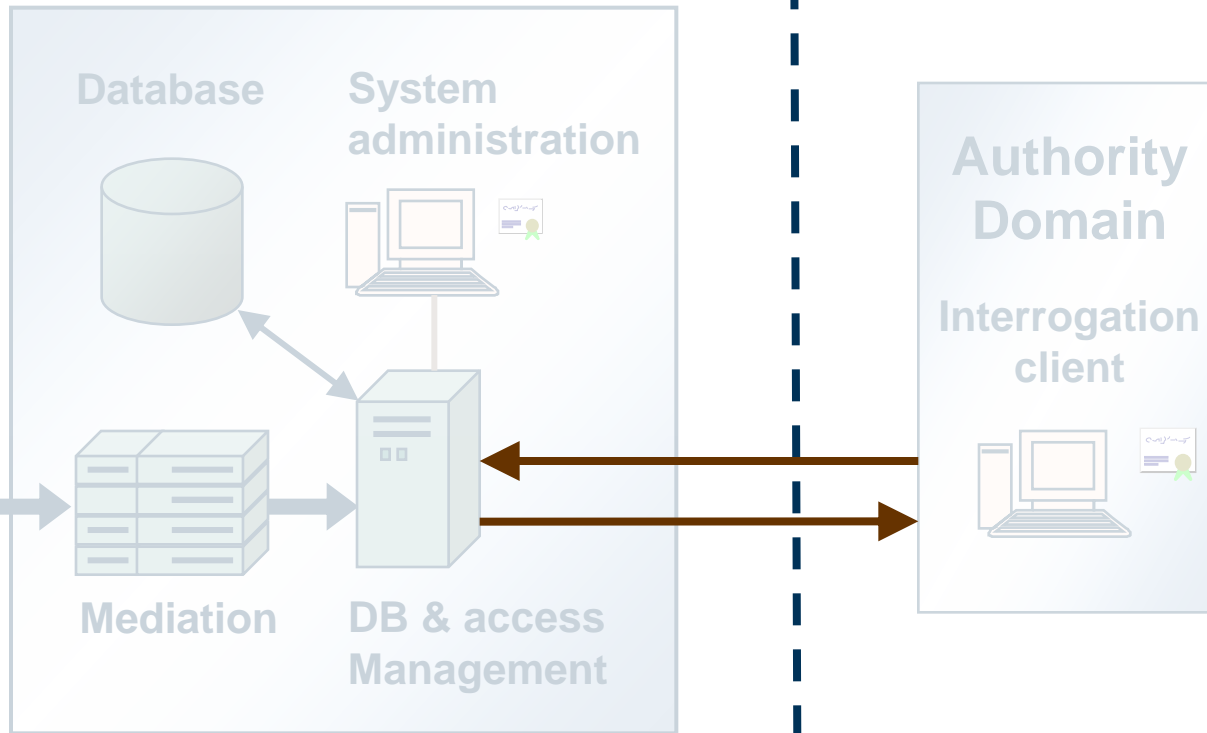
Valid for nodes using **any technology**

Cell data

CRM system

ADRS Core System

Database

System administration

Traffic nodes

External mediation

Mediation

DB & access Management

An offering to secure a Complete set of Data

Data Retention for Everyone   2008-09-29   **ERICSSON**

Automatic Handover Interface

ADRS Core System   **RDHI**   **Optional Offering**

Database   System administration

Authority Domain

Interrogation client
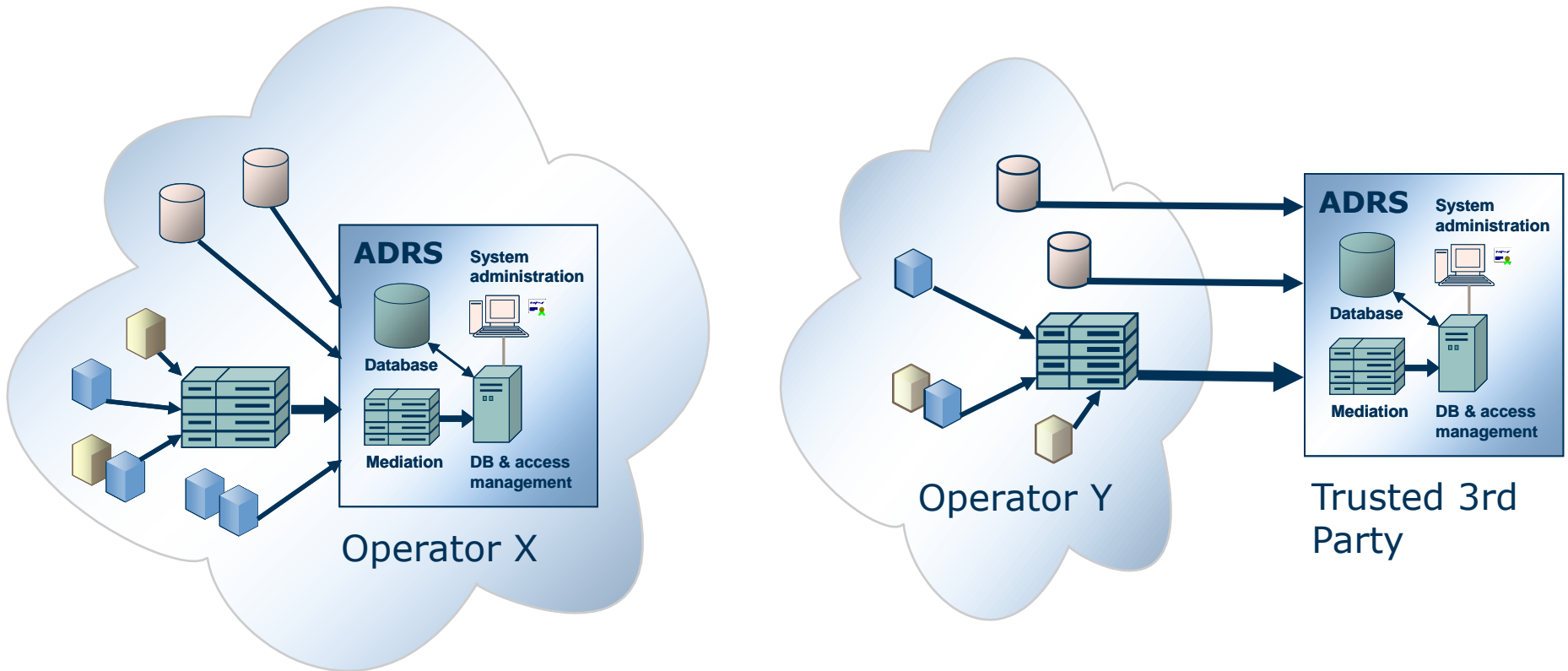
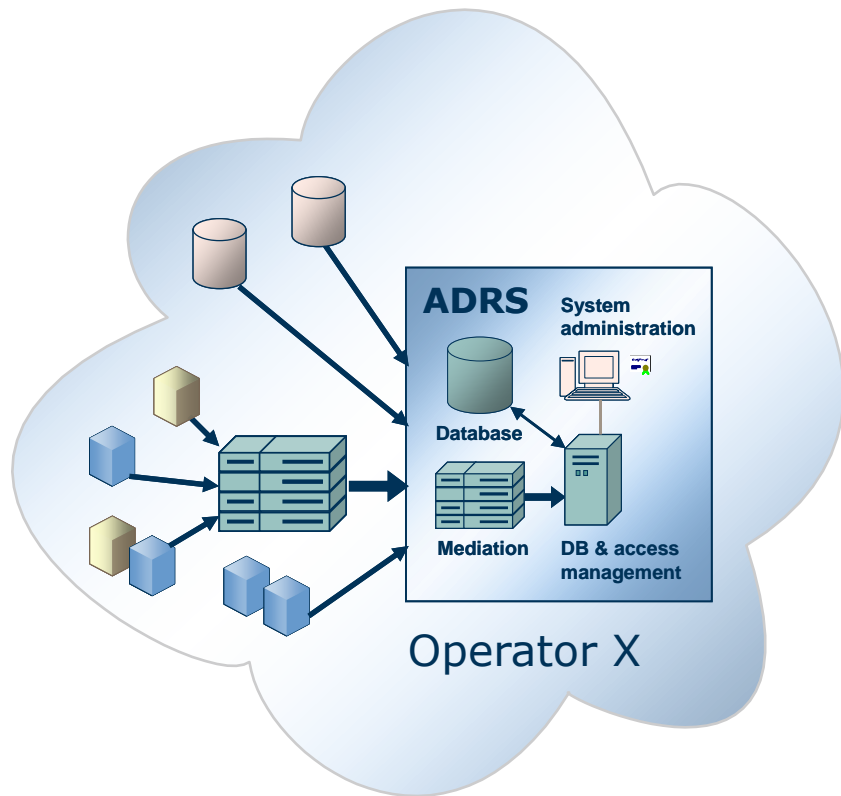Mediation   DB & access Management

Highly secure

Fully automatic

ETSI compliant

An offering to secure a Prompt Delivery of data

ADRS deployment scenarios

When to choose an in-house solution ?
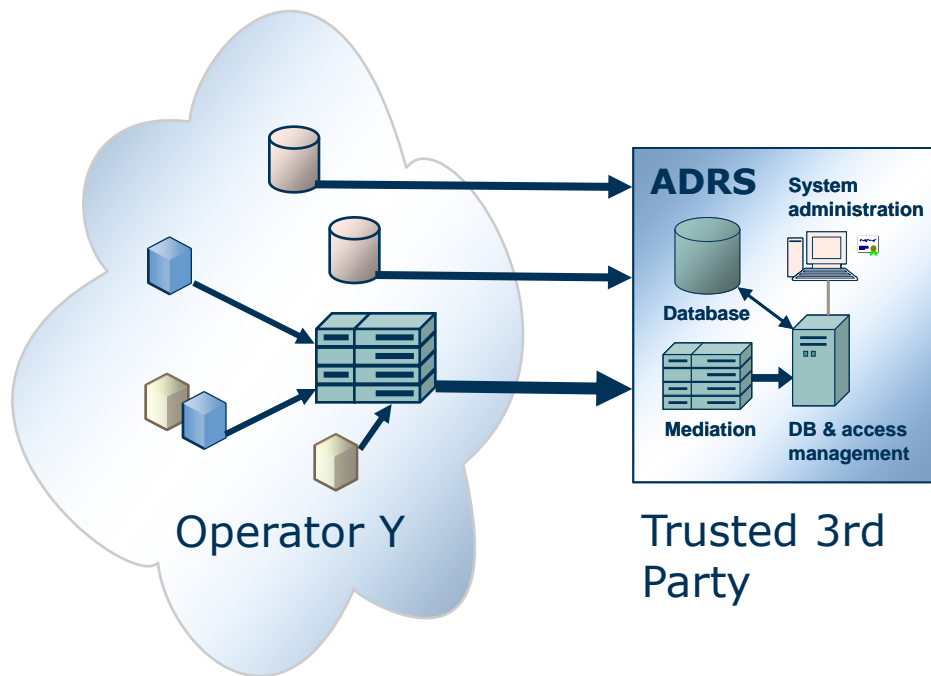

ADRS
System administration
Database
Mediation
DB & access management

Operator X

- Suitable for large Network and Service Providers

- Maintain control of own infrastucture

- Enable multi-purpose usage of retained data when allowed

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When to choose outsourcing ?

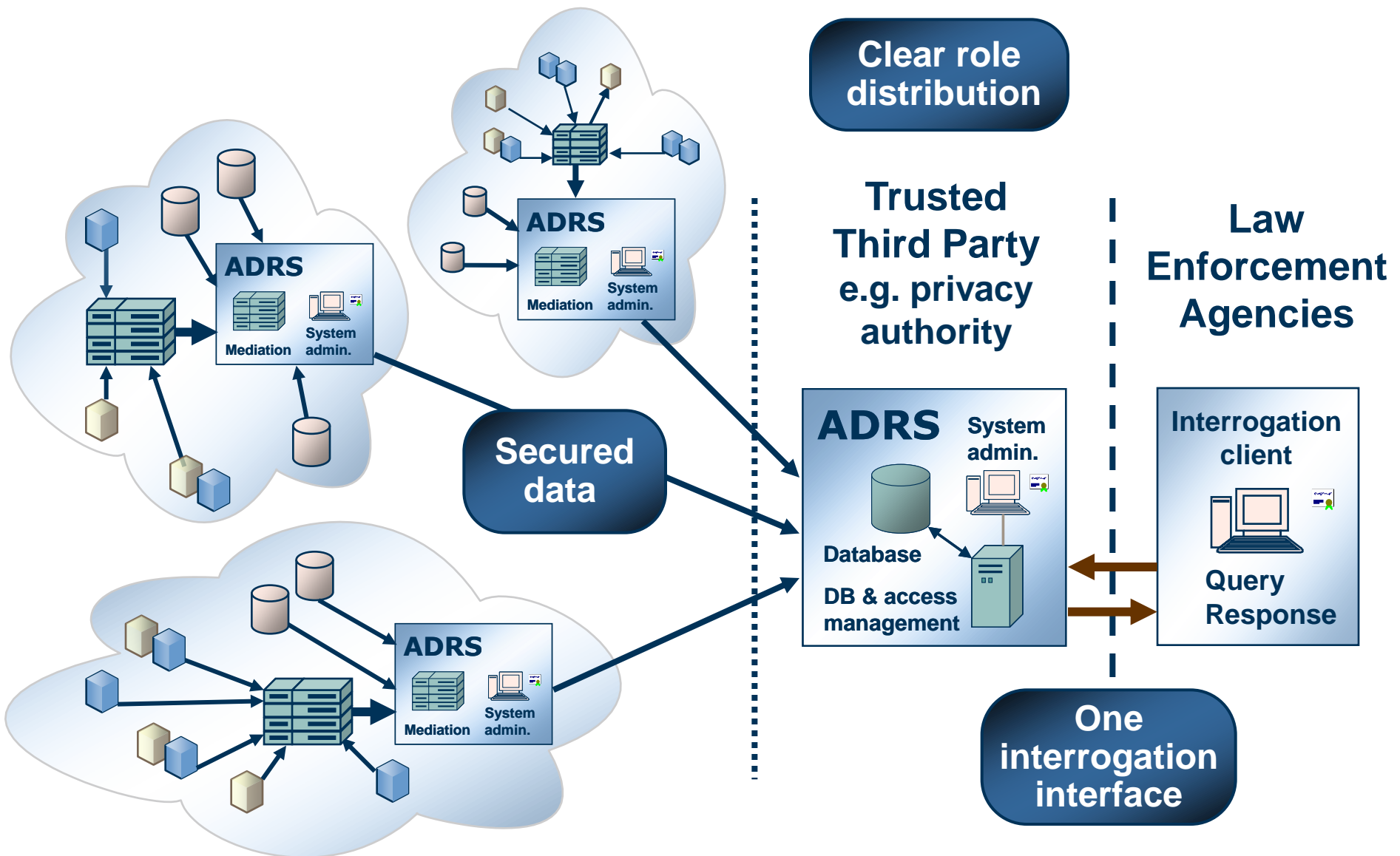Operator Y

Trusted 3rd Party

- Suitable for medium and small Communication Service Providers

- Minimum focus on Data Retention needed

- No CAPEX, only OPEX

Multi-tenant scenario
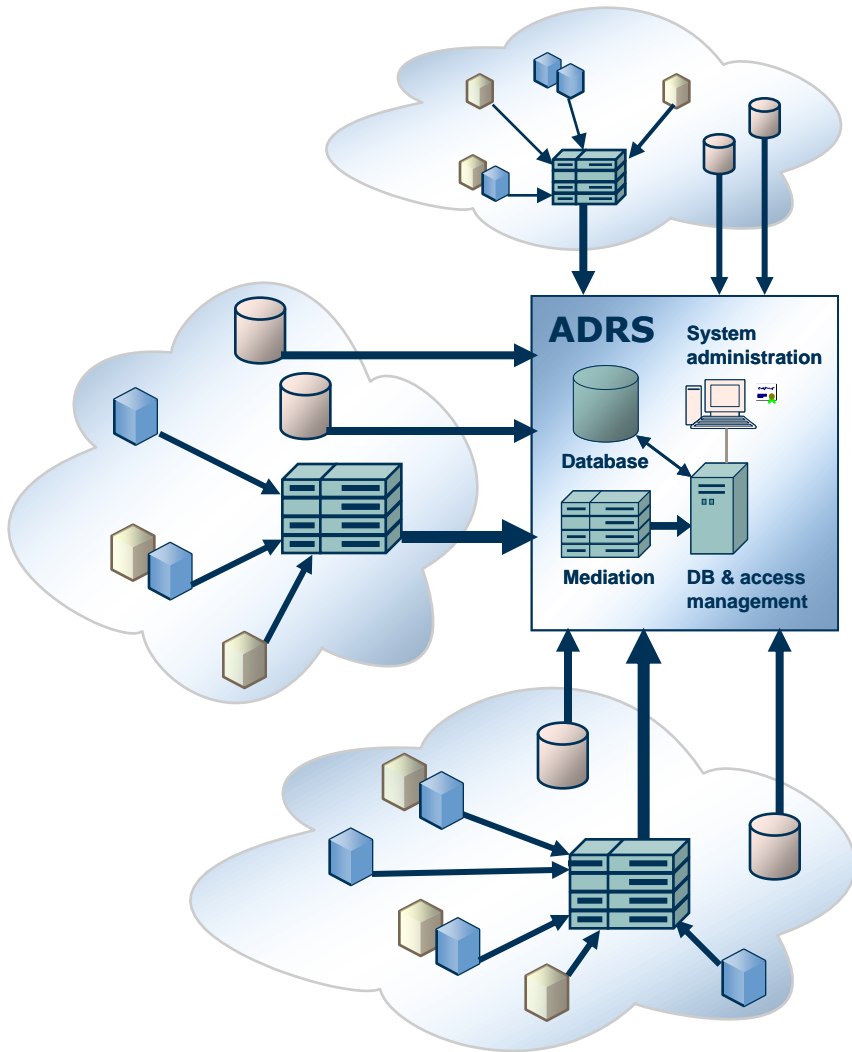
- Trusted 3rd Party will host muliple service providers

- Trusted 3rd Party can be a joint venture

- Reduced cost due to shared infrastructure

Data Retention for Everyone

Clear role distribution

Trusted Third Party e.g. privacy authority

Law Enforcement Agencies

Secured data

One interrogation interface

ADRS — Mediation, System admin.

ADRS — Database, DB & access management, System admin.

Interrogation client — Query Response

Questions ?

For follow-up questions, further information, please contact

adrs@ericsson.com

THANK YOU !

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