

INTERNET DAGARNA

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ENUM

I

Praktiken



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Agenda

- **What is ENUM ?**
- **Applicability of ENUM in Telecom**
- **Opportunities & Challenges**

What is ENUM ?

Individual end user view

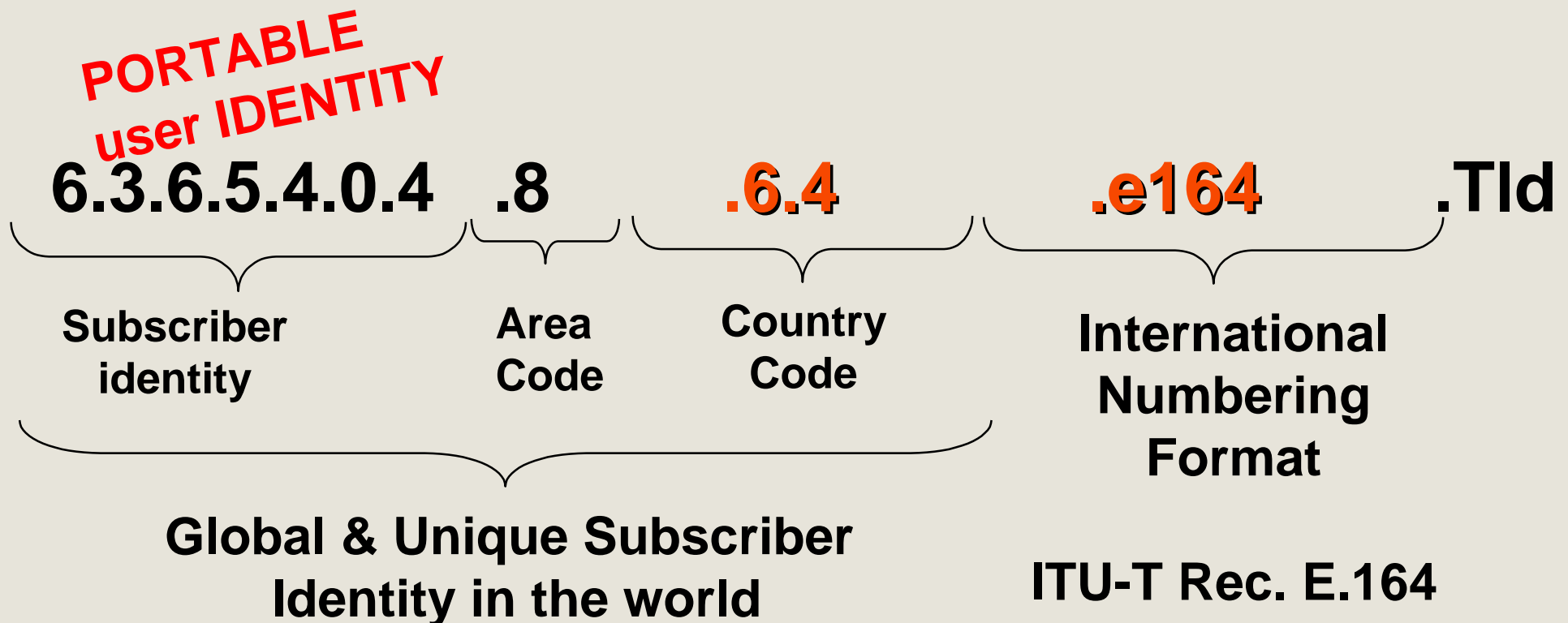


What is ENUM ?

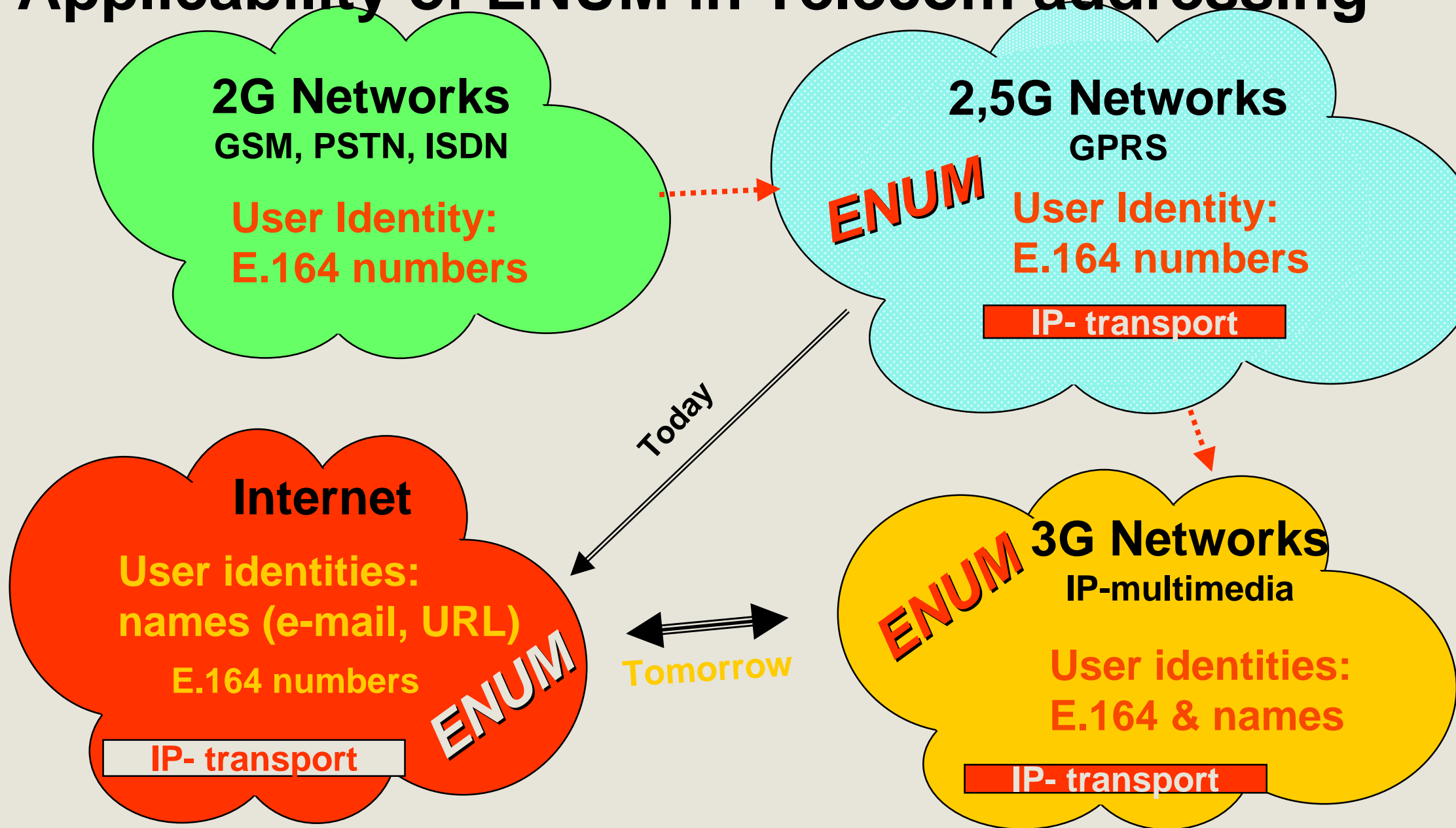
From a telecommunication perspective

ENUM is the method of translating the telecom E.164 user identity resources into the IP based DNS identities

Thus, a telephony (M)ISDN number +46 8 404 5636 will be formatted into

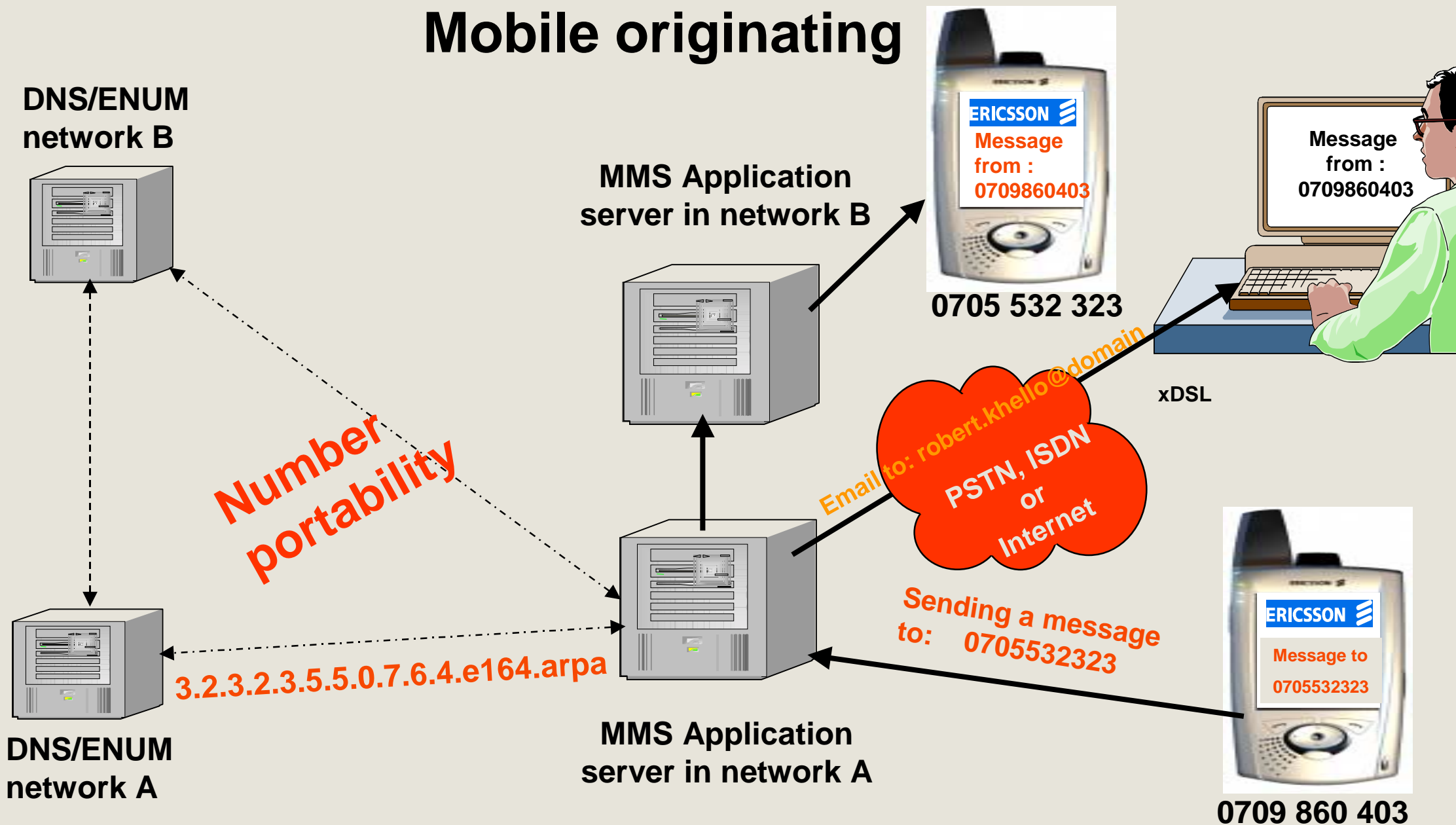


Applicability of ENUM in Telecom addressing



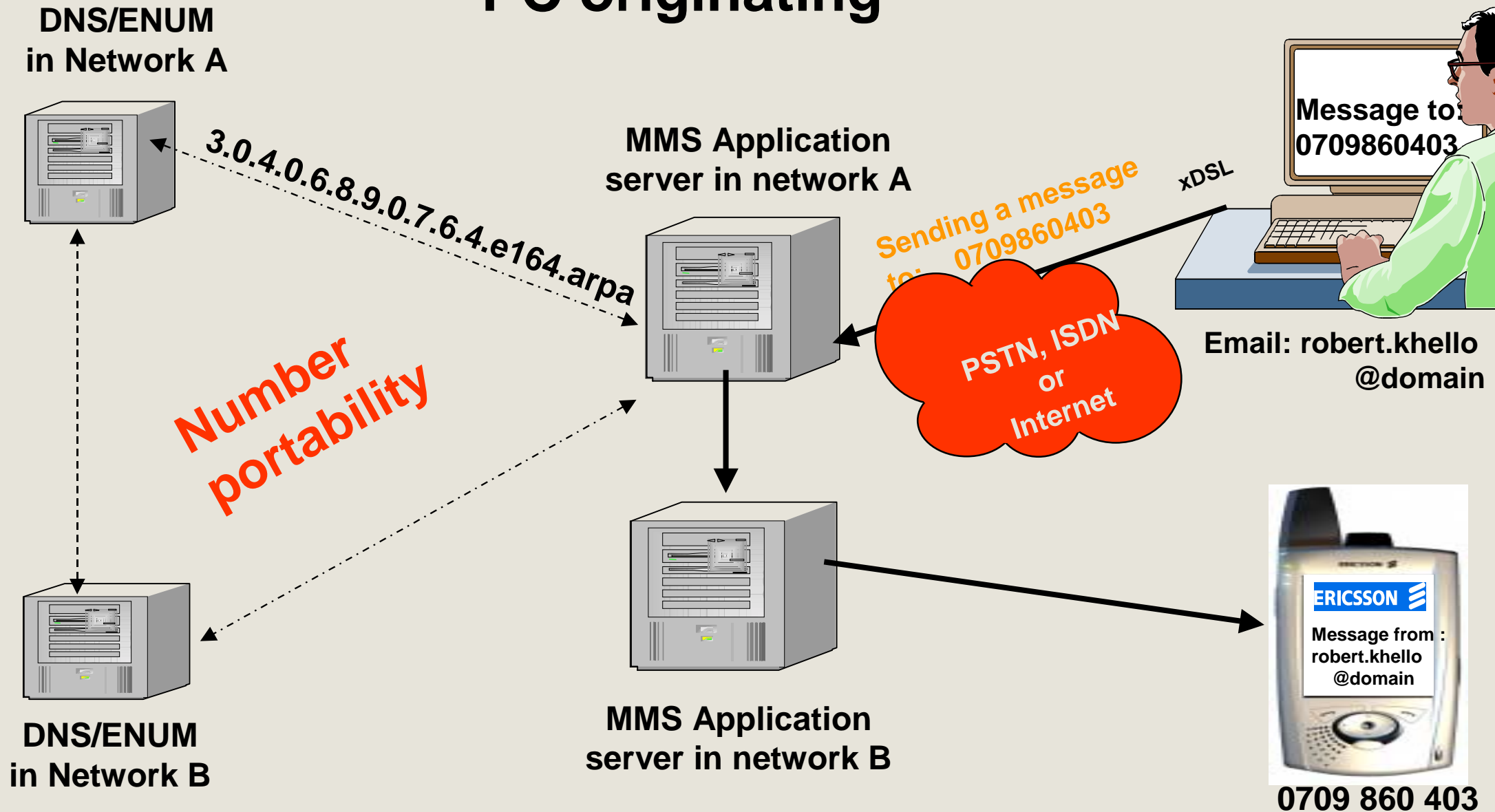
Applicability of ENUM in Telecom

Mobile originating



Applicability of ENUM in Telecom

PC originating



Opportunities & Challenges in Telecom networks

Opportunities:

- ENUM is a *mechanism* that enables End-users to get access to IP based services using the familiar E.164 numbers
 - mobile internet applications,
 - legacy internet applications,
 - etc...
- As ENUM offers a transparency of technologies (E.164 number in both domains), *end-user friendliness* is obtained when designing *new* IP based applications.

Opportunities & Challenges in Telecom networks

Challenges:

- No global agreements on the TLD. Delays in consensus may risk the building of incompatible ENUM islands, which jeopardise the *inter-operability in-between Telecom networks & internet domains*
- Demands effort to clarify and handle *privacy rules*
- It may require additional work in different forum (e.g. GSM association) for obtaining a *common framework of DNS resource records configuration* (e.g. caching, security)

Conclusions

- **No consensus on “.arpa”. Ericsson: no matter “which” as long as Only “one” global ENUM TLD applies to maintain the end-users freedom to worldwide mobility and the inter-operability**
- **New generation Telecom networks are based on IP-routing. This will be done while preserving E.164 user identities and the rules surrounding the E.164 numbering resources (I.e. portability).**
- **New technology should benefit end-users and the industry. There is no need for re-engineering the circuit switched network rather the efforts should be addressing the design of new capabilities and applications and promote the inter-operability between domains.**

Thank You for Listening

QUESTIONS