ENUM
in the Netherlands

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Anything really technical:

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.nl
an SIDN product

ENUM
ENUM NL, an SIDN initiative

Who doesn't own a mobile yet ?

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Who has switched their ring tone off ?

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Is ENUM about reachability?

The idea makes sense..

But what are we talking about?

- Phoning Australia isn't that expensive anymore.

- Reachability may be a nuisance, but is it a killer app.?

- It makes sense to clean up your room, but how many people make a mess of that?
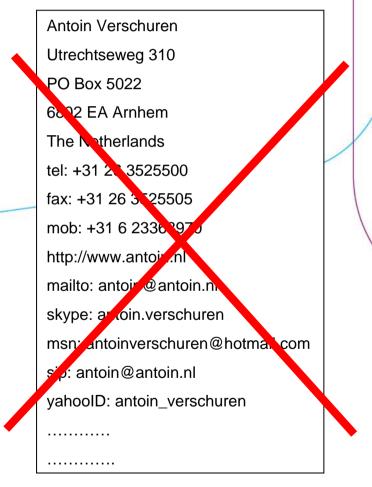
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Basically: what can you do with ENUM ?

- Service interoperability
- More efficient routing
- Numberportability
- **Identity management**

Though it's the most difficult to implement: identity management has the most potential for added value.

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Identity management

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ENUM in the Netherlands

2001 - 2002	NLEG report
2002	Protective delegation 1.3.e164.arpa to Ministery (EZ)
2002 – 2005	No interest from the market to start a trial
2005	VoIP boom, sudden interest
2006	SIDN starts ENUM initiative, seeks support from market
31-09-2006	Redelegatie request 1.3.e164.arpa to ENUM NL
2006 - 2007	Ministry consults the market for objections
22-03-2007	"Convenant" between ministry and ENUM NL about conditions for deploying Public User ENUM.
18-06-2007	Start ENUM innovation platform
26-03-2008	Report from innovation platform and 1st registration

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Consultation results

- Open transparent policy

- Support the NLEG report

- Compulsory market consultation about policy and technical requirements

- Only Public User ENUM

- Request from telco's that only numberholders could do registrations was rejected by the ministry because it prevented competition and did not comply to NLEG report model of registrars

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Platform results

- Strong validation (agent) requirements
- Open registrar market
- Clear complaint procedure
- Only number users can register though registrar
- Almost all numbers can be registered
- Pre-delegation DNS-checks
- Use validation token
- Validation methods invented by market
- Allow numberblock registrations
- No regular whois service
- DNSSEC and IPv6 within 1 year after introduction

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Some NL special market observations

- Innovative market

- High broadband penetration

- 28% of voice is VoIP (though most people don't know it).

- Government promotes competition

- Regulator supplies numberblocks directly to endusers, not only to operators

- Operators allready operate central numberportability database.
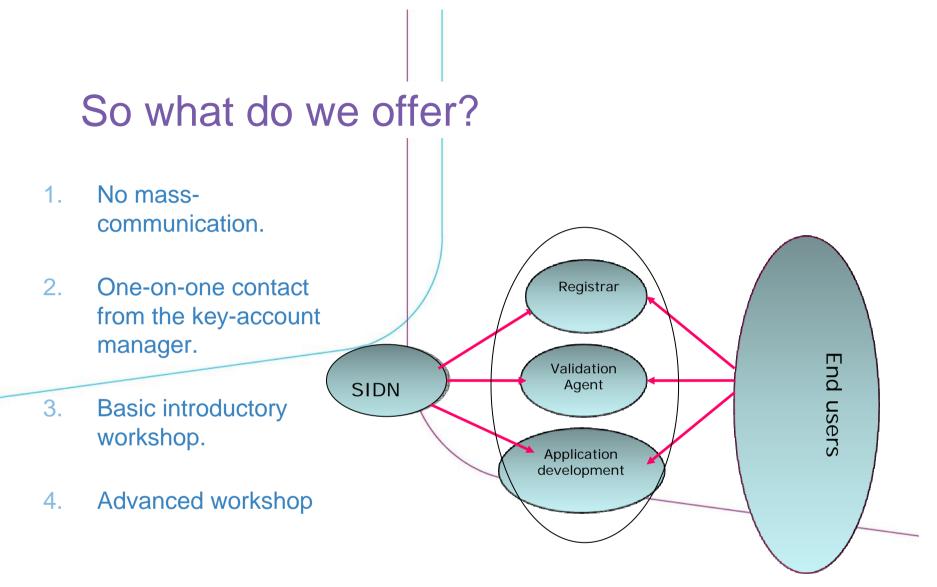
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Specific ENUM NL observations

1. If you want a constructive meeting: don't invite telco's.

2. Telco's need a one-on-one approach.

3. The best (open) proposals for new applications do not come from the telecommunications branch.

4. The key for many parties is knowledge: linking the right people to each other to create chemistry.

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Registry setup

- Seperate foundation for ENUM NL
- Procedures/processes/documentation takes most of our time
- Difficult to implement innovative and new product in profesionalising organization
- Start with limited known registrars
- In temporary registry system
- Will use same registry system software as IEnum in few months
- Next step open up for all registrars
- DNSSEC and IPv6 in 2009

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So what do we offer?

1. No mass-communication.

2. One-on-one contact from the key-account manager.

3. Basic introductory workshop.

4. Advanced workshop

5. ENUM Award

Registrar

Validation Agent

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Application development

End users

Pricing

Registration in relation to block size	Basic tariff	Discount 08 – 09
1	€ 5	€ 2,50
10	€ 25	€ 12,50
100	€ 125	€ 50
1000	€ 500 **	€ 250
10000	€ 2500 **	€ 1250
Registrarfee		
ENUM Registrar	€ 620	€ 310
Valdiation-agent	Free	Free
Mutations		
Transfers	€ 5	€ 5
Unblock tariff	€ 10	€ 10
Other services		
Ratify validation method	Max. € 150	Free

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Where are we now?

- 10 registrars have started.

- Basic interface online, Nic AT implementation has begun.

- 1st validation agents have started.

- Two nurturing projects have started.

- Results evaluated by end of 2009.

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Questions ?

ENUM registry:

www.enum.nl

ENUM innovation platform:

www.enuminnederland.nl

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