



NEXt generation Emergency Services

Open Source Intelligence Dissemination Conference

Rome | 8th July 2015



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Agenda



- An Introduction
 - Action Details
 - Partners
- Concept
 - Overview
 - WPs
 - Plan for Exercises
- Contacts
 - Connect to us ...

NEXES: an Introduction



Action full title	NEXt generation Emergency Services
Action acronym	NEXES
Type of Action	Research and Innovation Action
Work Programme	DRS 19-2014: Communication technologies and interoperability
Topic	Topic 2: Next generation emergency services
Grant Agreement No.	653337



NEXES: an Introduction



NEXES is about

Making an emergency call

Exploiting new capabilities (audio, text, voice, location, personal data, medical history, etc.) brought by

IP and Mobile Devices

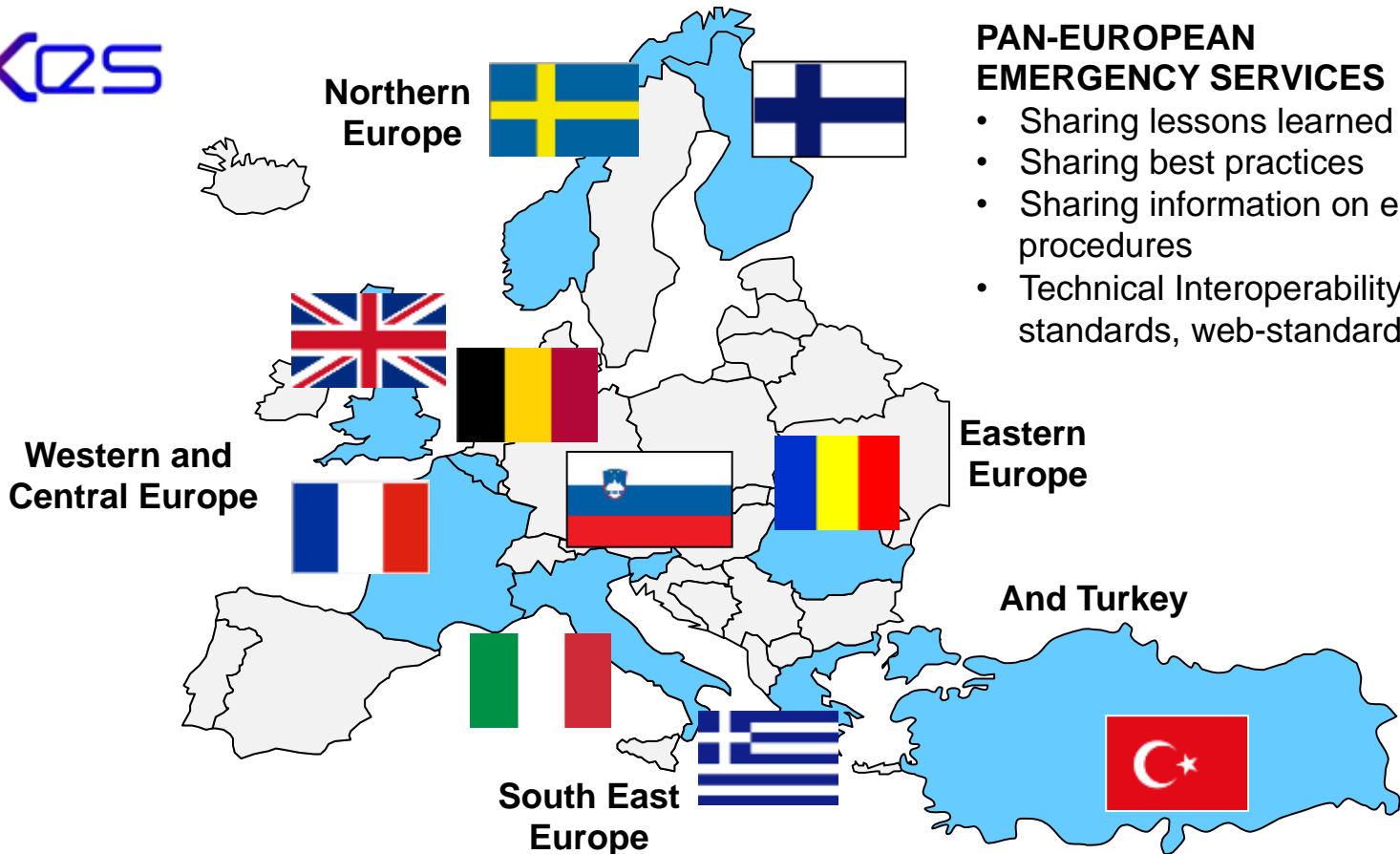
and Online Technology

NEXES: an Introduction



Organisation Name	Acronym	Country
RINICOM Limited	RINICOM	UK
Acil Ambulans Hekimleri Dernegi	AAHD	TR
AIMTECH Consulting Limited	AIM	UK
Azienda Regionale Emergenza Urgenza	AREU	IT
Corpo Nazionale dei Vigili del Fuoco	CNVVF	IT
DEVERYWARE	DW	FR
European Union of the Deaf	EUD	BE
Institute of Communication and Computer Systems	ICCS	GR
INSTA DEFSEC OY	IDS	FI
OMNITOR AB	OMN	SE
Orange Romania	ORO	RO
Poliisiammattikorkeakoulu (Police College of Finland)	POLAMK	FI
Préfecture de Police	PP	FR
TEAMNET International	TN	RO
Telekom Slovenije DD	TS	SI
Univerza v Ljubljani (University of Ljubljana)	UoL	SI
Police and Crime Commissioner for West Yorkshire	WYP	UK

NEXES: an Introduction



PAN-EUROPEAN EMERGENCY SERVICES

- Sharing lessons learned
- Sharing best practices
- Sharing information on emergency procedures
- Technical Interoperability: Internet standards, web-standards, CAP, ...)

NEXES: an Introduction



Today an emergency call is mostly voice only ...



Voice Call

PSAP
Operator



... Based on technology and systems established in the past century

NEXES: an Introduction



Despite 112/PSAP modernisations:

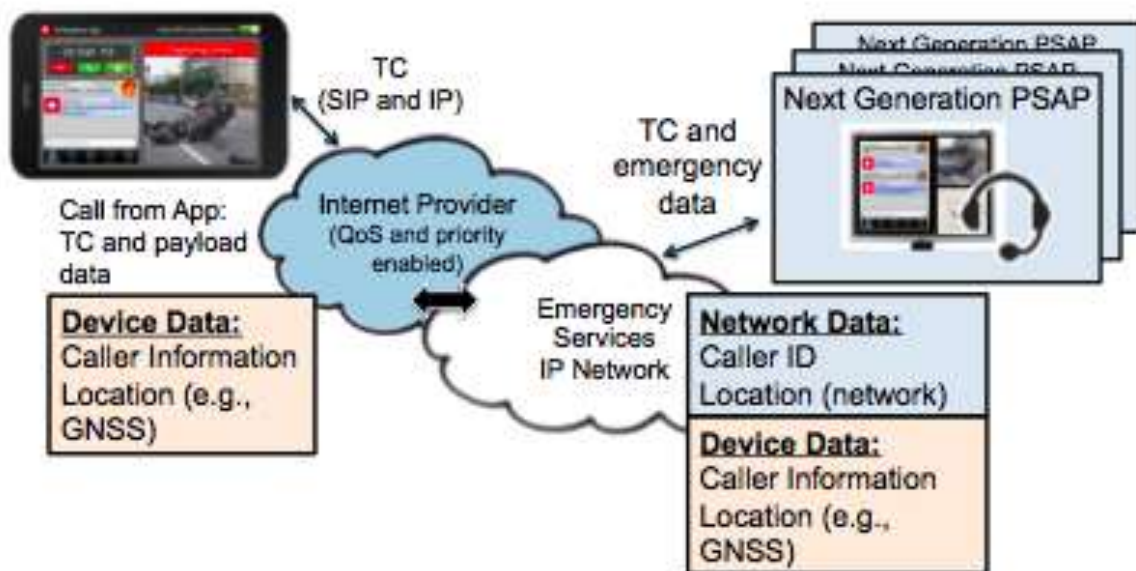
- **NO CITIZEN DATA:** communications between citizens and PSAPs **rely mainly on voice calls** over Public Service Telephone Network (PSTN) or mobile networks
(the *Digital Era* has not entered...)
- **NO ACCESSIBILITY:** **partial accessibility support** for citizens with disabilities: SMS, fax (!) and TTY-phone
- **POOR LOCATION:** **caller location** accuracy and precision of the caller's location **still remains the biggest hurdle of current ES** (location inaccuracies lead to considerable time loss (above 30 minutes))

NEXES: an Introduction



NEXES Vision:

- Exploit mobile data-enabled technologies to assist emergency calls
 - ✓ Total conversation (voice, real-time text, video calls and rich data exchange)
 - ✓ Add infrastructure capabilities (network data)
 - ✓ Modernise PSAP (integrated console supporting total conversation and rich data exchange)



Research, test and validate the promising integration of **IP-based communication technologies** and **interoperability** into the **next generation emergency services**, so that they attain **increased effectiveness and performance**. Empowered by **smartphones** with **cameras**, **messaging** and **internet-based applications** connecting to social media, citizens expect emergency services to use the same technologies. However, today, this is not the case.

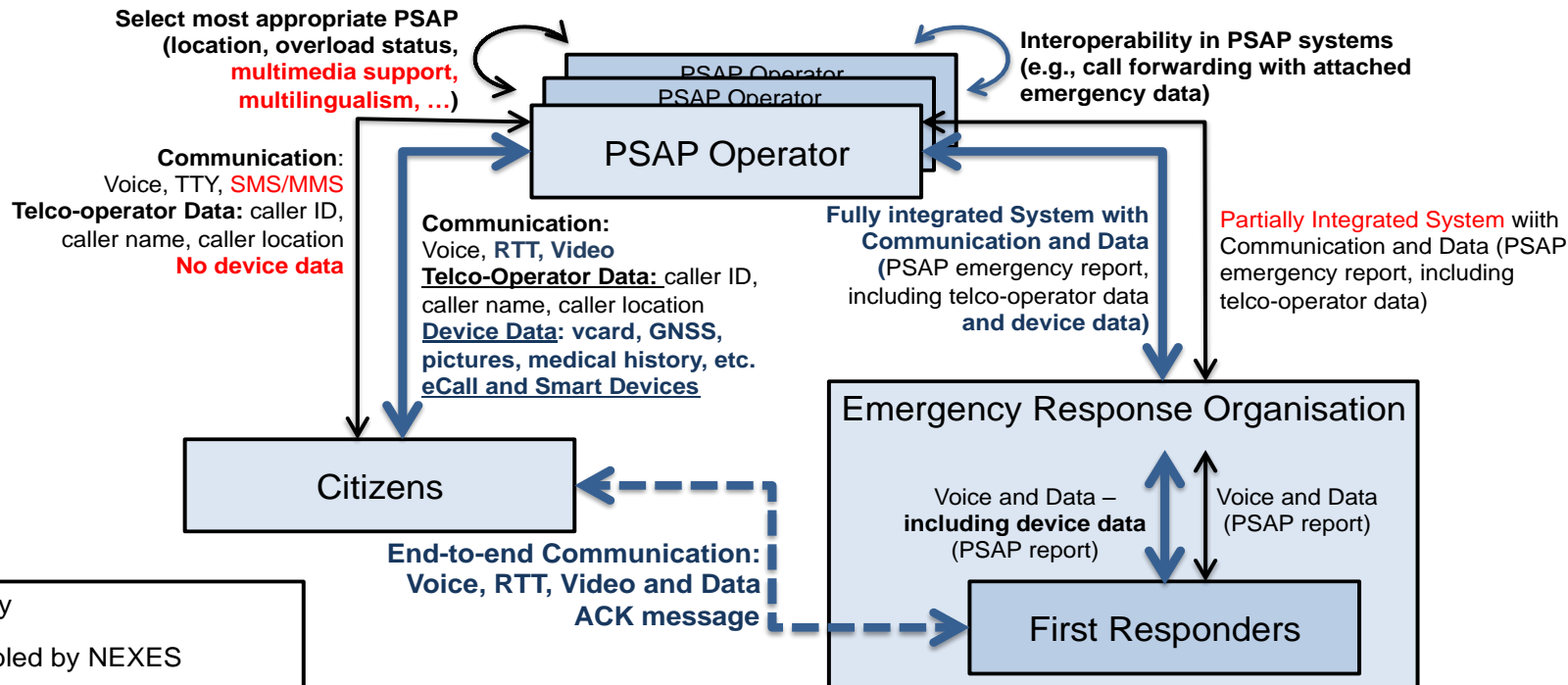
NEXES Concept



NEXES innovates the approach to the dynamics between **emergency services and citizens**, allowing:

- (i) the use of **total conversation capabilities** in emergencies, including social media, to the benefit of citizens, including those with disability or special needs
- (ii) the **exploitation of improved location information** to rapidly and effectively identify and locate the caller and the incident site and
- (iii) the **leverage of Internet-enabled connectivity to enhance interoperability and shared awareness** among emergency services, to the benefit of a more secure society.

NEXES Concept



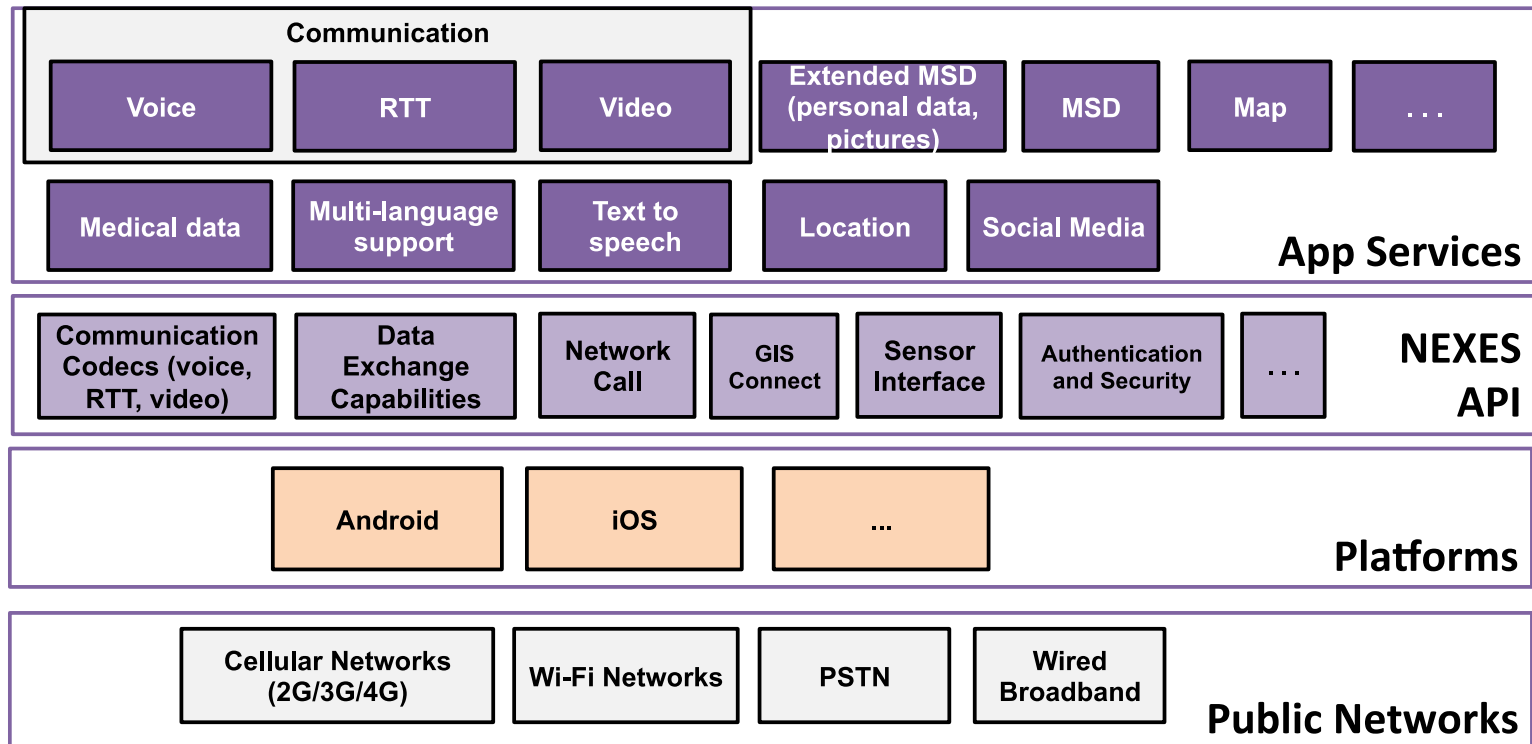
NEXES Concept

Location, Location, Location ...



- End-User led:
 - WP2 – End-users Analysis and Adoption Strategies for NEXES
- R&D:
 - WP3 – The NEXES Core [**IP-infrastructure**]
 - WP4 – The EDGE of NEXES [**Apps**]
 - WP5 – Emergency Call Handling and Coordination [**modern PSAPs**]
 - WP6 – Automated, Smart and Social [**next of NEXES**]
- Testing, Validation and Pilots:
 - WP7 – Testing Regime and Validation Framework and Integration Activities
 - WP8 – NEXES Campaigns of Demonstration
- Transversal:
 - WP1 – Management and RTD Coordination
 - WP9 – NEXES Dissemination and Exploitation

- Pan-European App
 - *Standardisation*
 - *Emergency App API*



- Ambitious exercises campaign:
 - **Tabletop Exercises;**
 - **Command Post Exercises;**
 - **Prototype Validation;**
 - **Hands-on Experiments;**
 - **Live Exercises and Small Scale Demonstrations;**
 - **NEXES Pilots:**
 - Slovenia
 - Romania
 - Turkey



Tabletop Exercises



Prototype Validation

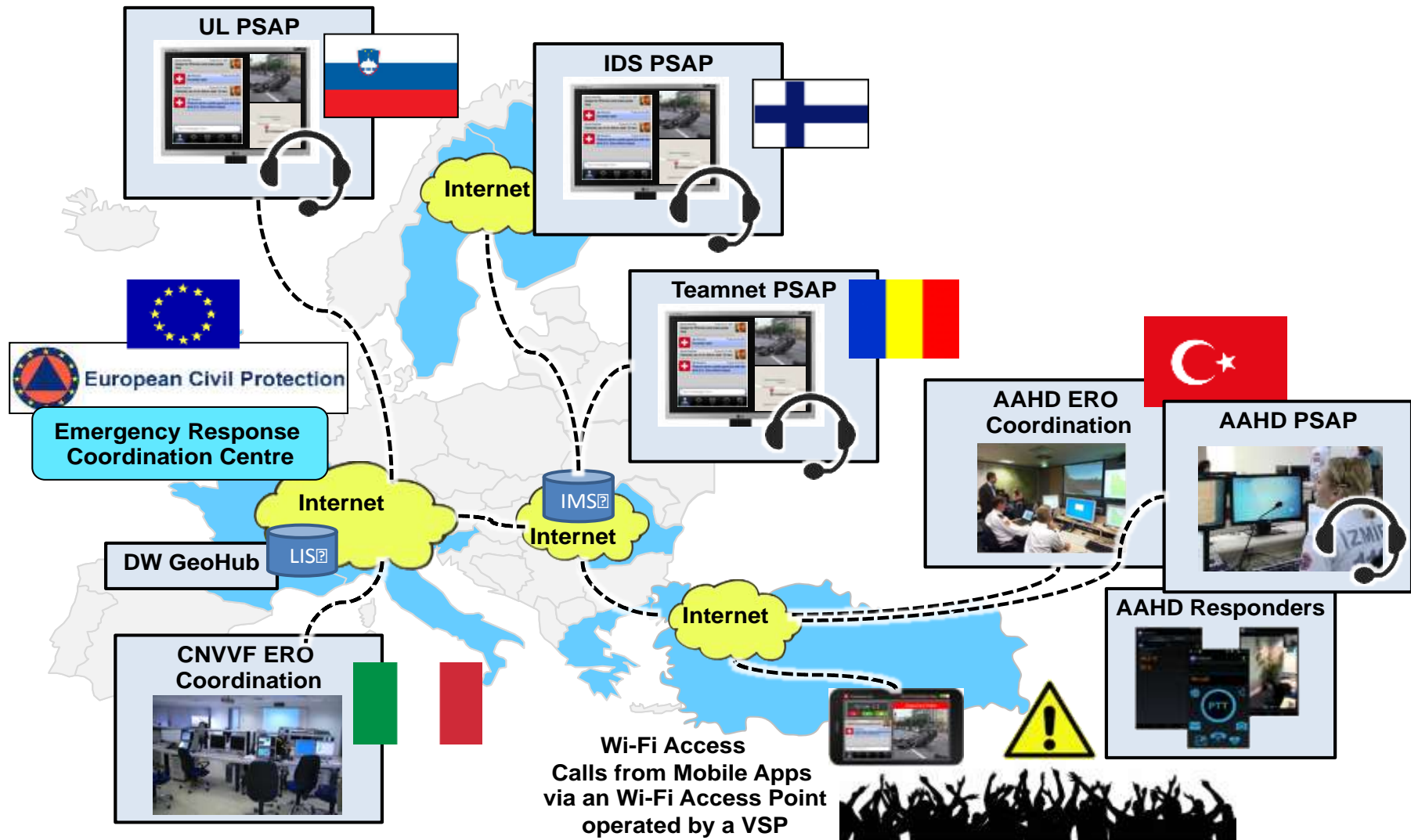


Hands-on Experiments



Small scale live exercises

NEXES Exercises: Final Pilot



Connect to Us



- Webpage: <http://nexes.eu>
- LinkedIn:
<https://www.linkedin.com/grp/home?gid=8315359>
- Facebook:
<https://www.facebook.com/pages/NEXES/634352030033461>

Contacts

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