

**This presentation is more than one year old.  
Some parts may be outdated.**

You can find the latest information here:

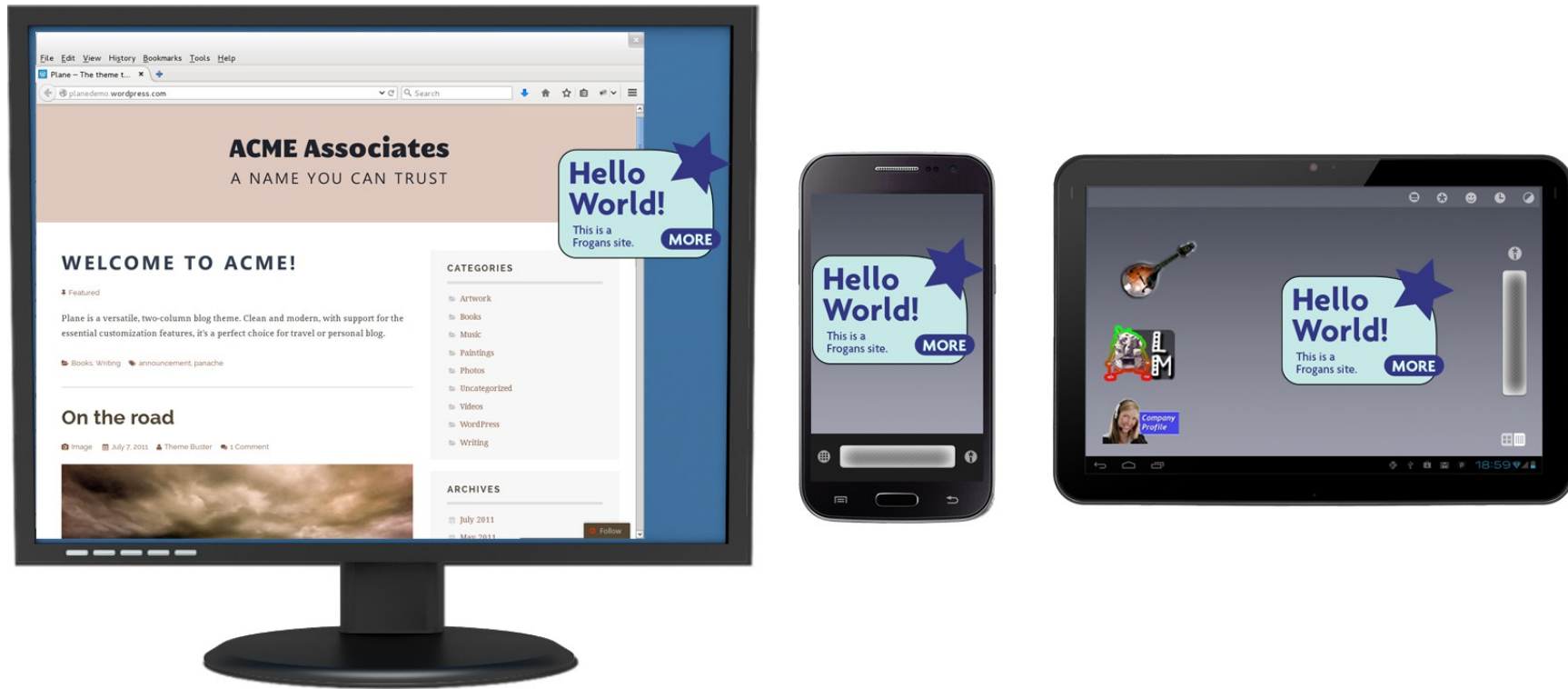
**<https://www.frogans.org/en/main.html>**

# The Frogans Project

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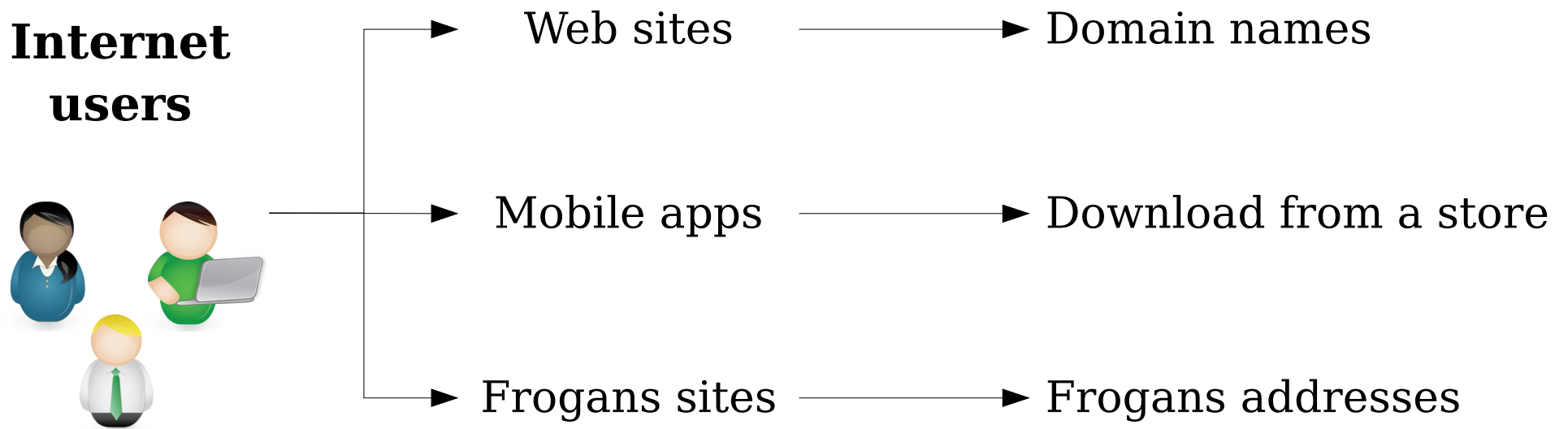
[www.frogans.org](http://www.frogans.org)

# Frogans sites: small, secure, multi-platform, multi-device



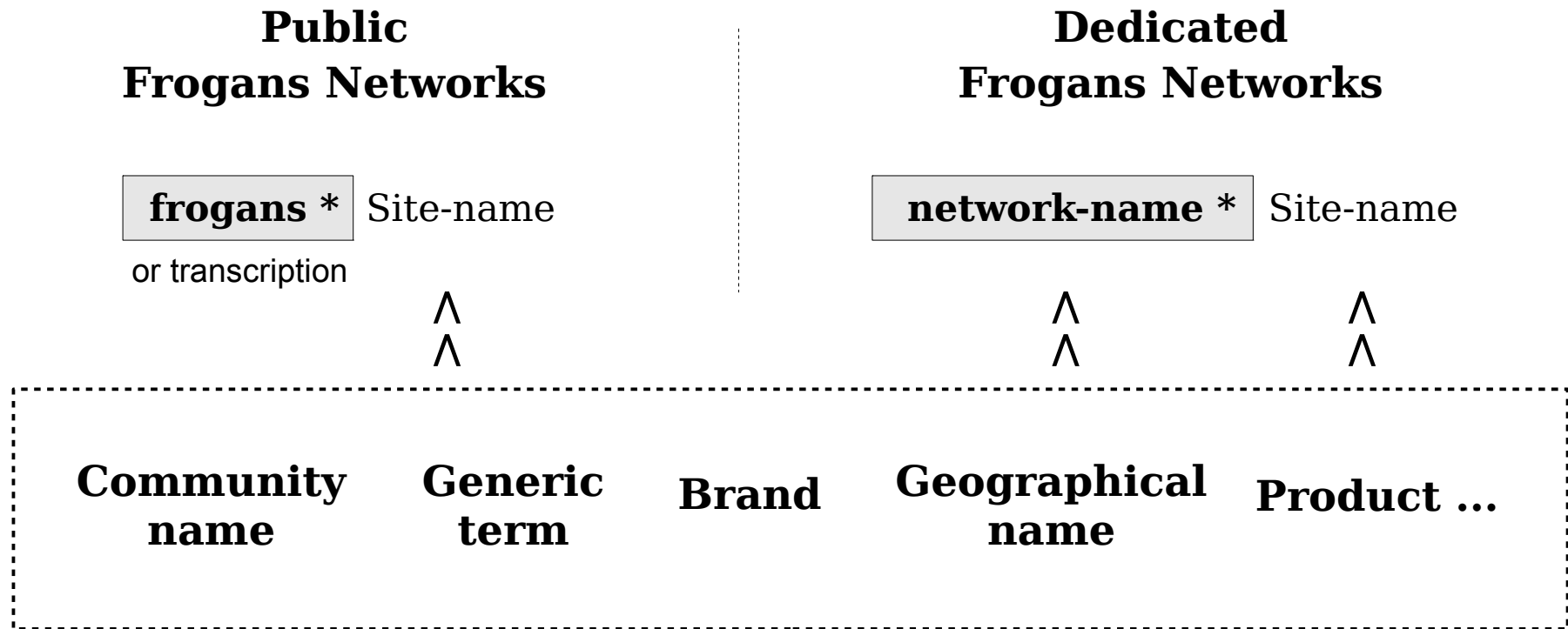
- Publication of a new type of site with a new international addressing system
- Same browsing experience and display across all devices
- Sites viewable via Frogans Player downloadable free of charge from the OP3FT

# Frogans addresses within the Internet addressing environment



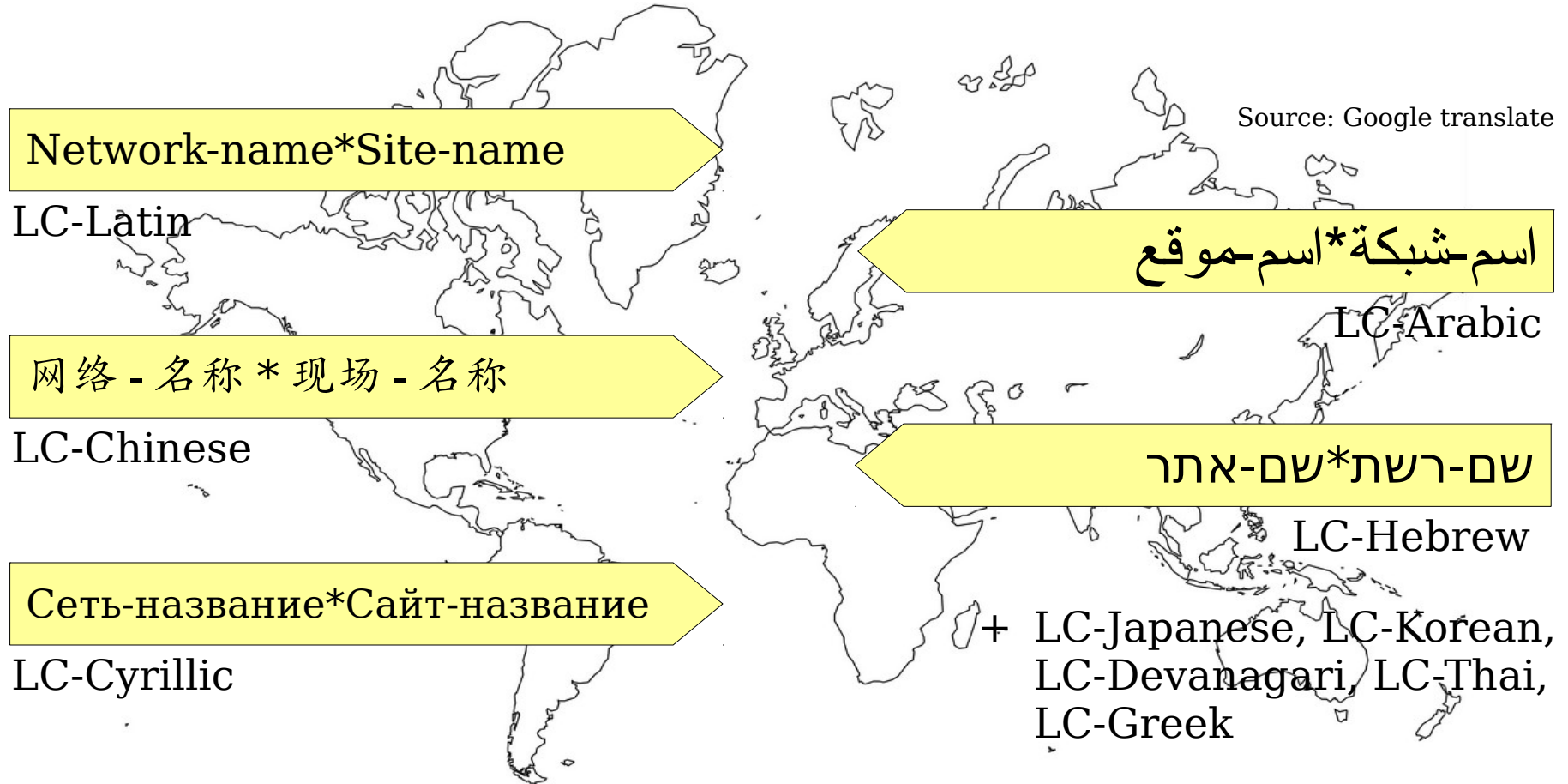
- Frogans addresses represent a new market
- Frogans addresses are used to identify Frogans sites
- Frogans addresses do not replace domain names

# Frogans networks on the Internet: sets of Frogans addresses



- Two types of Frogans networks on the Internet
- Customizable network names for Dedicated Frogans Networks
- Supports writing systems from all around the world

# Frogans addresses: 10 linguistic categories



- Covers at least 179 languages
- Each linguistic category has its own set of rules
- The linguistic category doesn't concern the content of the Frogans site

# Frogans addresses: managing confusion

## End-user confusion

between characters in a given writing system



I uppercase i  
1 digit one  
l lowercase L

between characters in different writing systems



a Latin  
а Cyrillic

between characters in a language with two writing systems



宁 calm, peaceful  
寧 repose, serenity  
In simplified and traditional Chinese

- Raises potential security issues for end users
- The most important issue relates to spoofing
- Currently focused on visual and semantic confusion

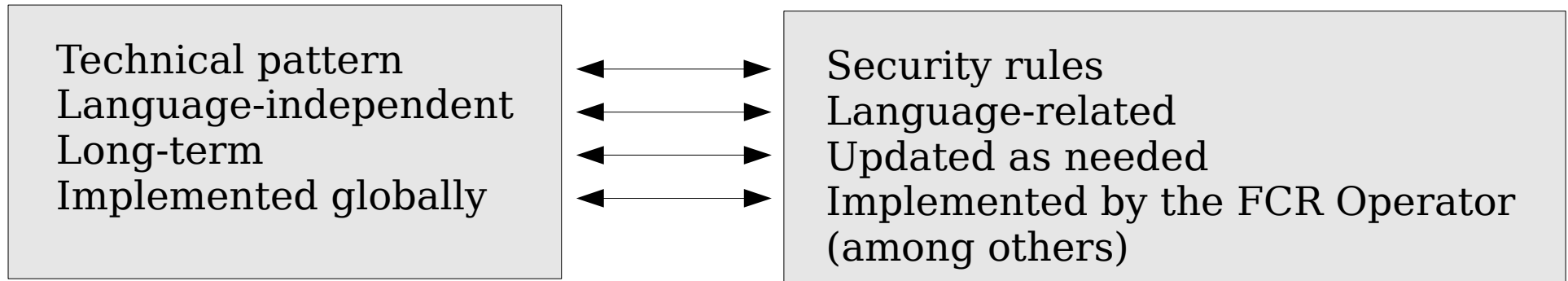
# A two-part model for specifying Frogans addresses

## IFAP

International  
Frogans  
Address  
Pattern

## FACR

Frogans  
Address  
Composition  
Rules

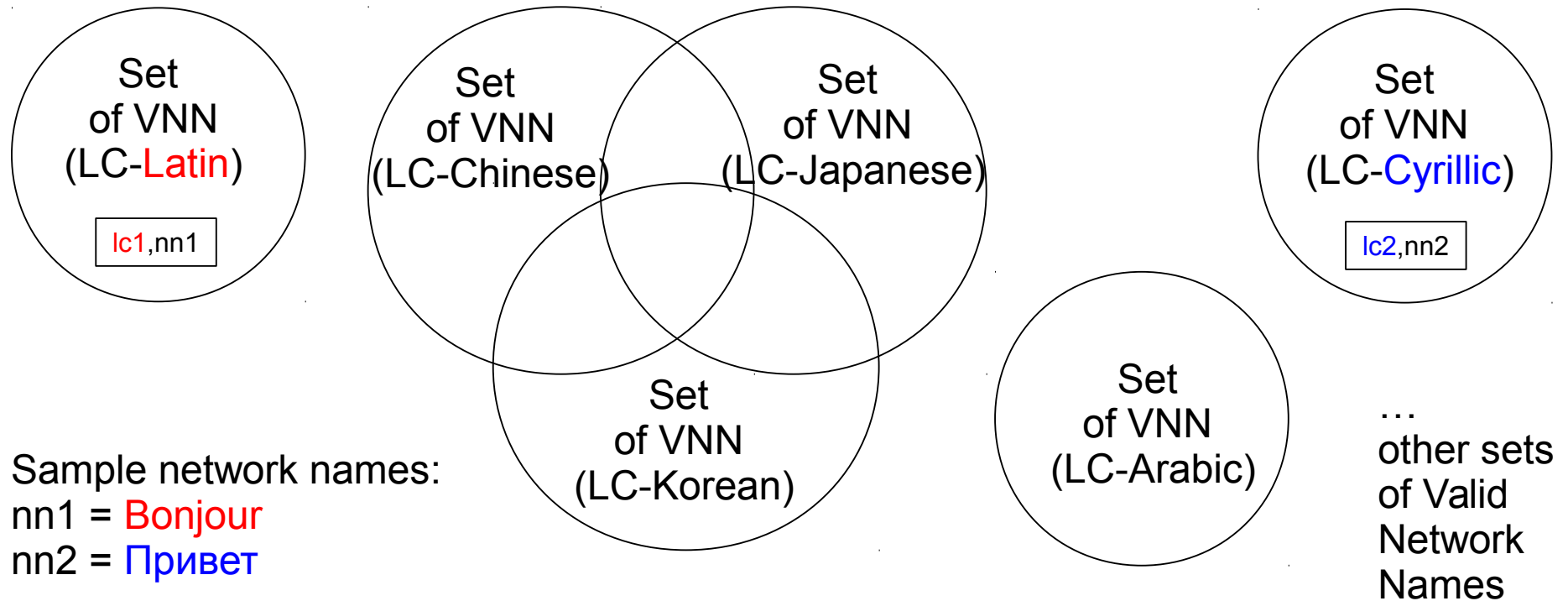


★ Purely technical approach insufficient →  
**FACR/IFAP** are supported by **FTUP**, **UDRP-F**, and **end-user awareness**

- Called for by the OP3FT Bylaws
- Provide stability for a widely distributed and installed technology
- Provide flexibility and reactivity demanded to solve security issues



# FACR: Overlapping linguistic categories



- Ten linguistic categories available in FACR 1.0
- Specific rules are defined for each Linguistic Category
- Convergence forms are defined both within each LC and between LCs

# A few examples

	Valid network name		Invalid Network name	
Latin	<b>vidéo</b> 0076 0069 0064 <b>00E9</b> 006F	Latin	<b>vidéo</b> 0076 0069 0064 <b>0065 0301</b> 006F	Network name is not IFAP compliant (not in NFKC form)
Latin	<b>hello</b>	Latin	<b>hello</b> 0068 0065 <b>0196 0196</b> 006F <i>0196 LATIN CAPITAL LETTER IOTA</i>	Network name 2 is not FACR valid (U+ 0196 is not employable)
Latin	<b>paypal</b>	Latin	<b>paypal</b> 0070 <b>0430</b> 0079 0070 0061 006C <i>0430 CYRILLIC SMALL LETTER A</i>	Network name 2 is not FACR valid (U+ 0430 is not employable)
Latin	<b>HELLO</b>	Chinese	<b>HELLO</b>	Network name 2 is not FACR valid (missing a character of native scripts)
Latin	<b>hello</b>	Latin	<b>Hello</b>	The 2 network names are identical (IFAP)
Latin	<b>straße</b> 0073 0074 0072 0061 <b>00DF</b> 0065	Latin	<b>strasse</b> 0073 0074 0072 0061 <b>0073 0073</b> 0065	The 2 network names are identical (IFAP)
Latin	<b>HELLO</b>	Latin	<b>HELL0</b>	The 2 network names have the same Intra-LC convergence form
Latin	<b>amis</b>	Latin	<b>arnis</b>	The 2 network names have the same Intra-LC convergence form (Latin-Confusable)
Japanese	へ 3078 (Hiragana)	Japanese	ヘ 30D8 (Katakana)	The 2 network names have the same Intra-LC convergence form (Japanese Confusable)
Chinese or Japanese	醜 919C	Chinese or Japanese	丑 4E11 (Simplified Chinese variant of 919C)	The 2 network names have the same Intra-LC convergence form (Chinese Variant)
Latin	<b>scope</b>	Cyrillic	<b>scope</b> 0455 0441 043E 0440 0435	The 2 network names have the same Inter-LC convergence form
Latin	<b>BEAT</b>	Greek	<b>BEAT</b> 0392 0395 0391 03A4 <b>βεατ</b> 03B2 03B5 03B1 03C4	The 2 network names have the same Inter-LC convergence form

# Thank you for your attention!

- Welcome to the Frogans project  
<https://project.frogans.org/>
- The official Web site of the Frogans technology:  
<https://www.frogans.org/>
- International Frogans Address Pattern (IFAP) technical specification:  
<https://www.frogans.org/en/resources/ifap/access.html>
- Frogans Address Composition Rules (FACR) technical specification:  
<https://www.frogans.org/en/resources/facr/access.html>
- The UDRP-F and its Rules of procedure:  
<https://www.frogans.org/en/resources/udrpf/access.html>
- The Frogans Technology Conference:  
<https://conference.frogans.org/>
- The Frogans technology mailing lists:  
<https://lists.frogans.org/>