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Internationalized Domain Names: Challenges and Opportunities

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IDN 101

Internationalized Domain Names

café.org 英文数字.中国 日本.jp

A-Z 0-9 ‘-’

Punycode algorithm: Unicode Label → ASCII Label

café.org = xn--caf-dma.org

英文数字.中国 = xn--p8sv8u7bx89m.xn--fiqs8s

日本.jp = xn--wgv71a.jp

Talking Points

IDN implementations have made progress; however, they continue to underperform compared to their potential

1. IDN usage
2. User perception
3. Insights from Asian businesses
4. Call to action

A Year from Rome

2013

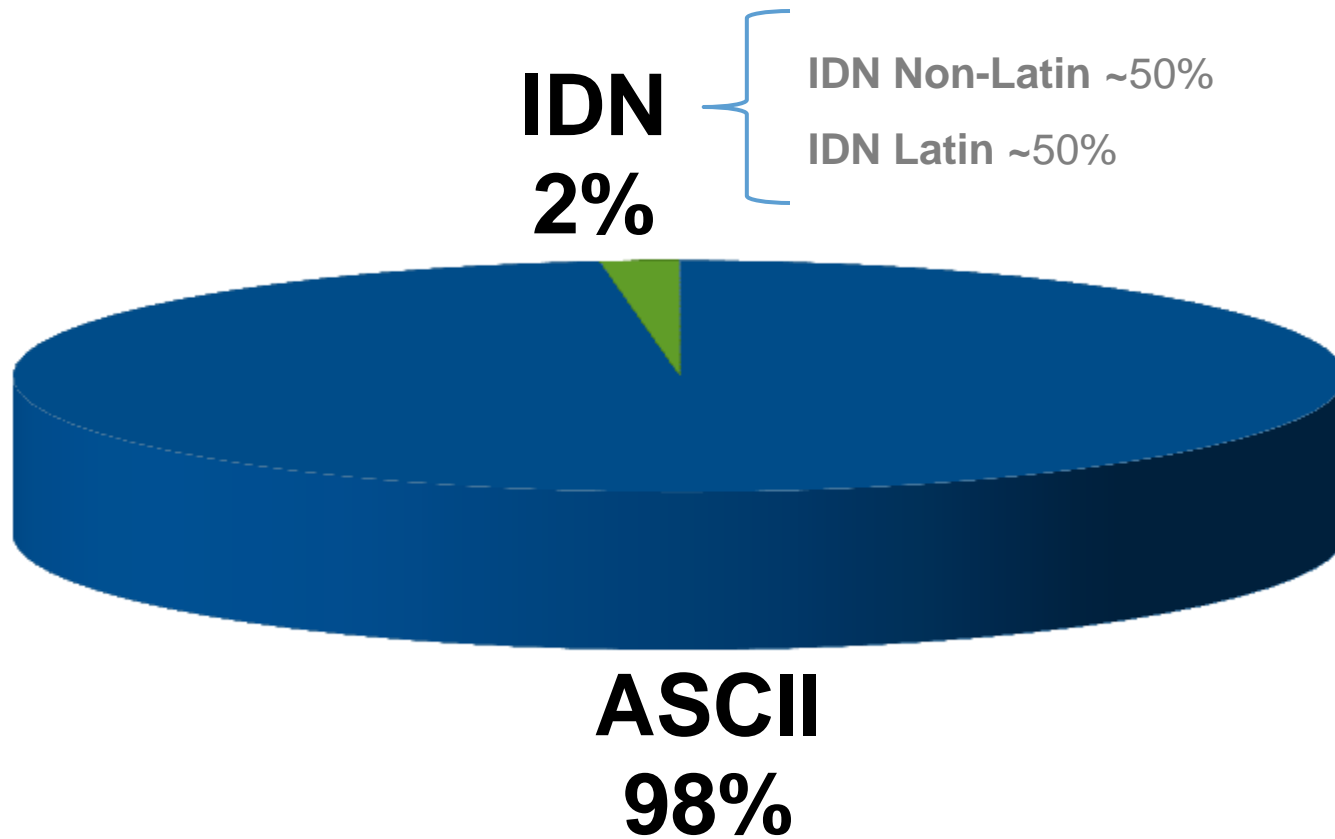
- 36 IDN ccTLDs
- Ecosystem dilemma. Who goes first?
- UNESCO and EURid published the Report on IDN Deployment
- .CO launched IDNs in Chinese, Japanese and Korean

2014

- Over 100 new gTLDs
- Including 25 new IDN gTLDs
- 16 Chinese TLDs and first Japanese IDN TLD
- Internal IDN software development contest

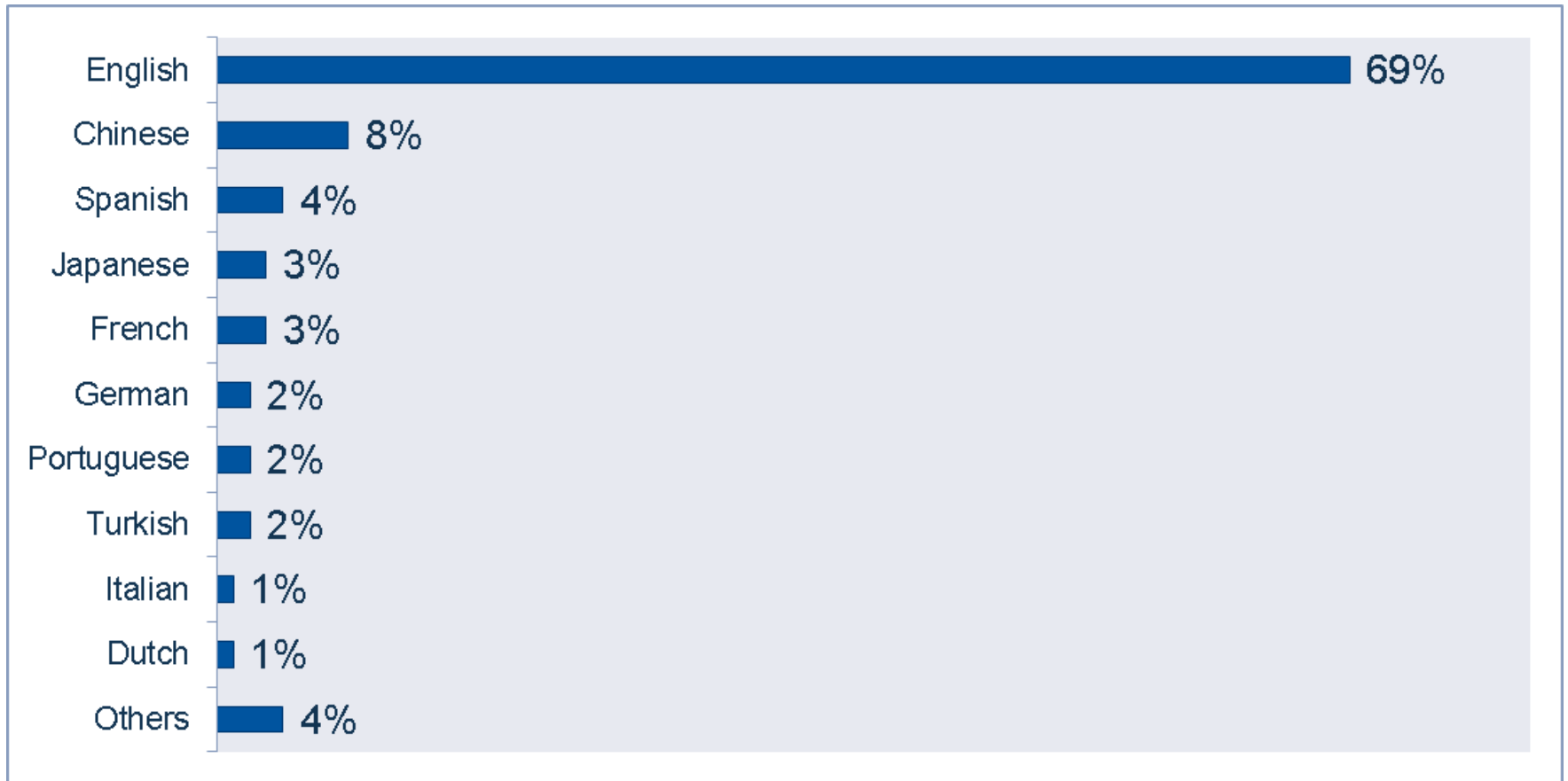
IDN Usage

IDNs versus ASCII Domain Names Worldwide



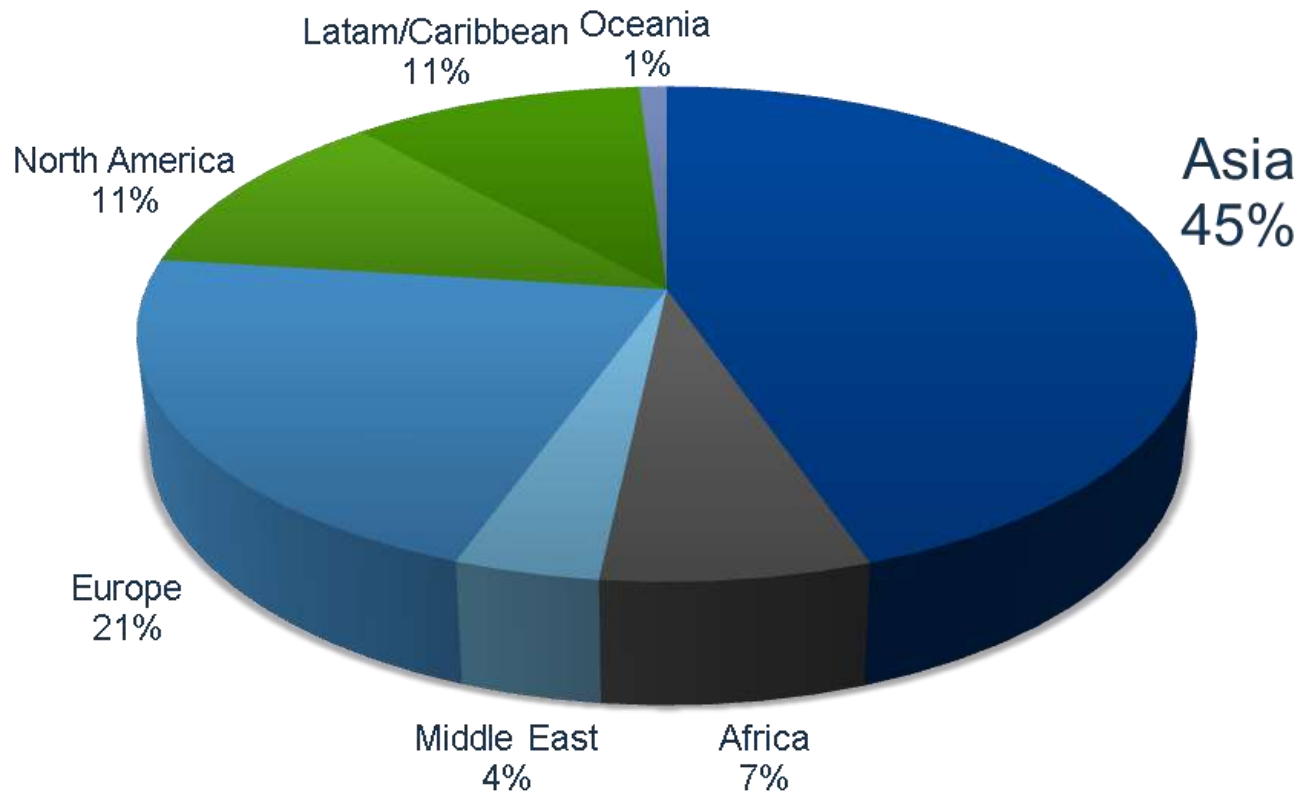
World Report on IDN Deployment, Unesco and EURid, 2013

Almost 70% of the Content is in English



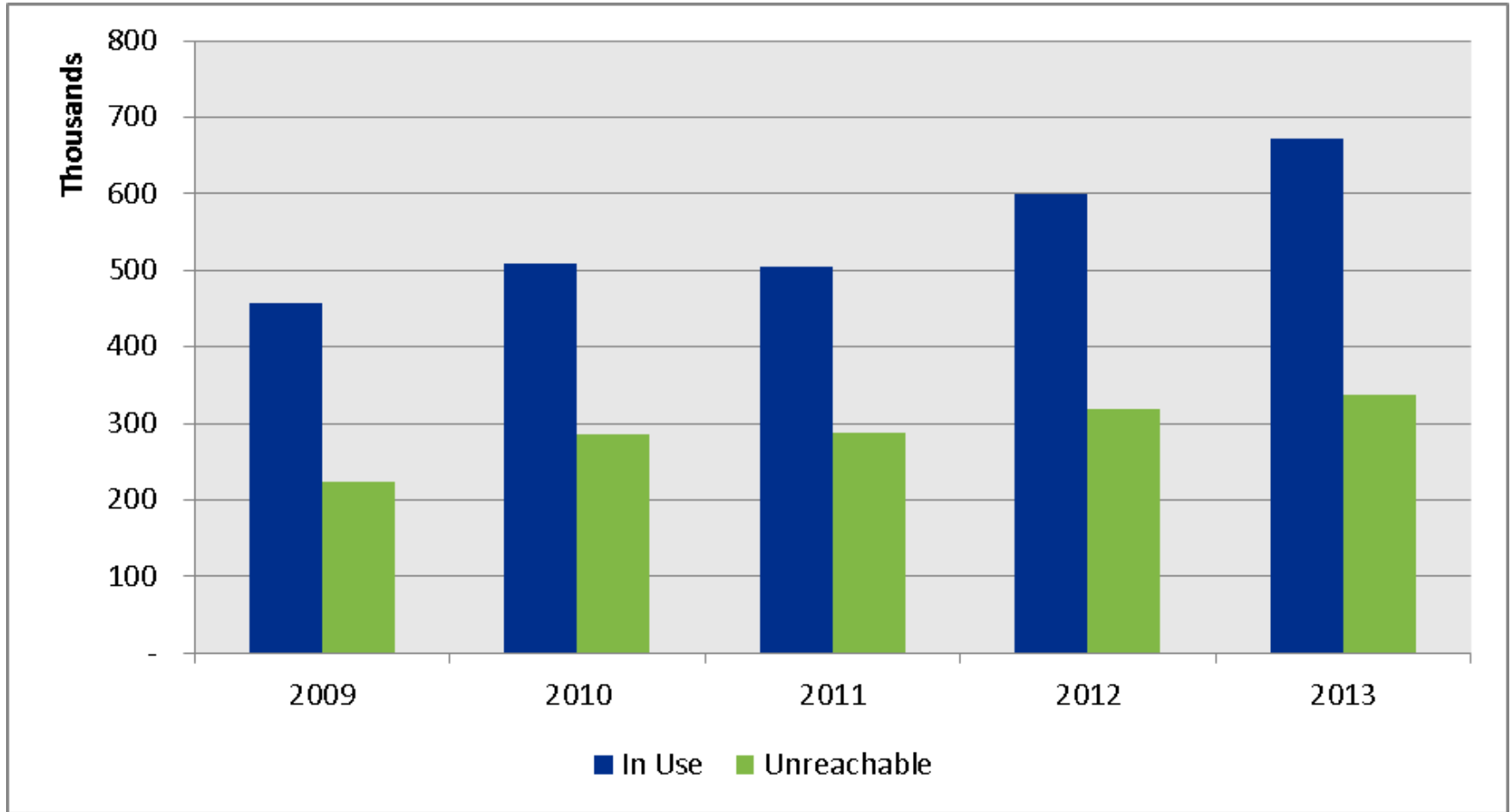
Source: Language analysis on .com websites, October 2013

50%+ of Internet population lives in non-Latin Language speaking countries



<http://www.internetworldstats.com/stats.htm>. Accessed April 15, 2014

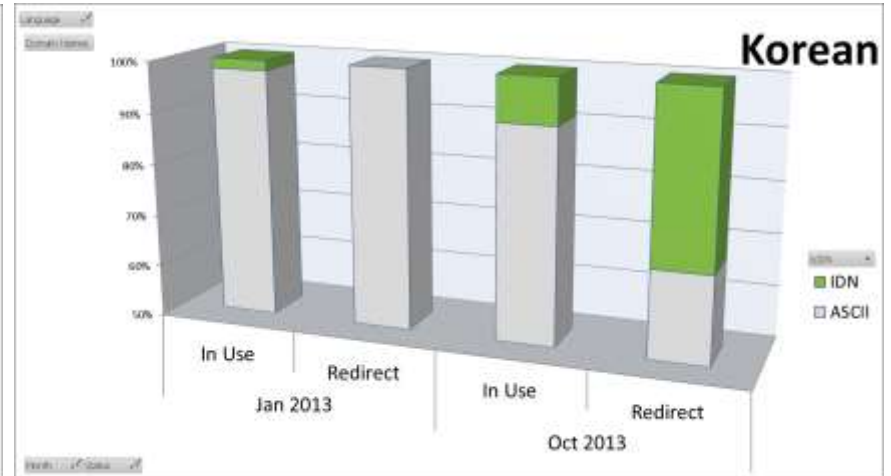
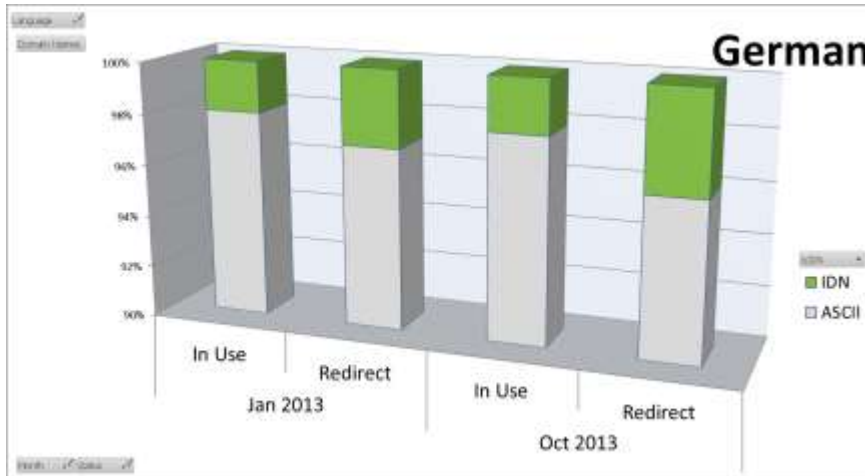
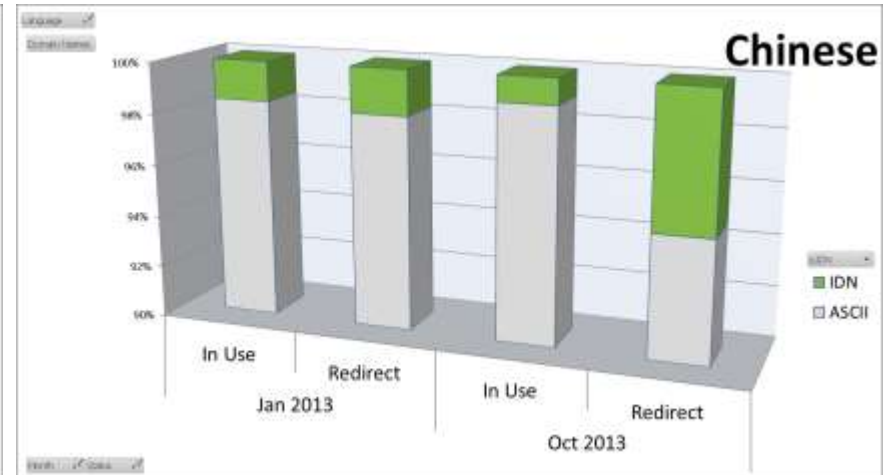
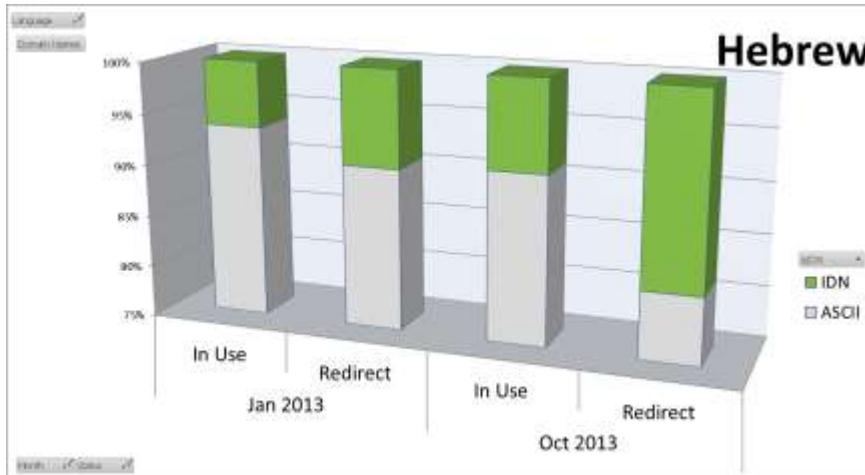
Growth in .com IDNs Used in Websites



Source: Analysis on .com websites, October 2013

Content Language Analysis

Higher percentage usage of IDNs as redirect links



IDN Usage Highlights

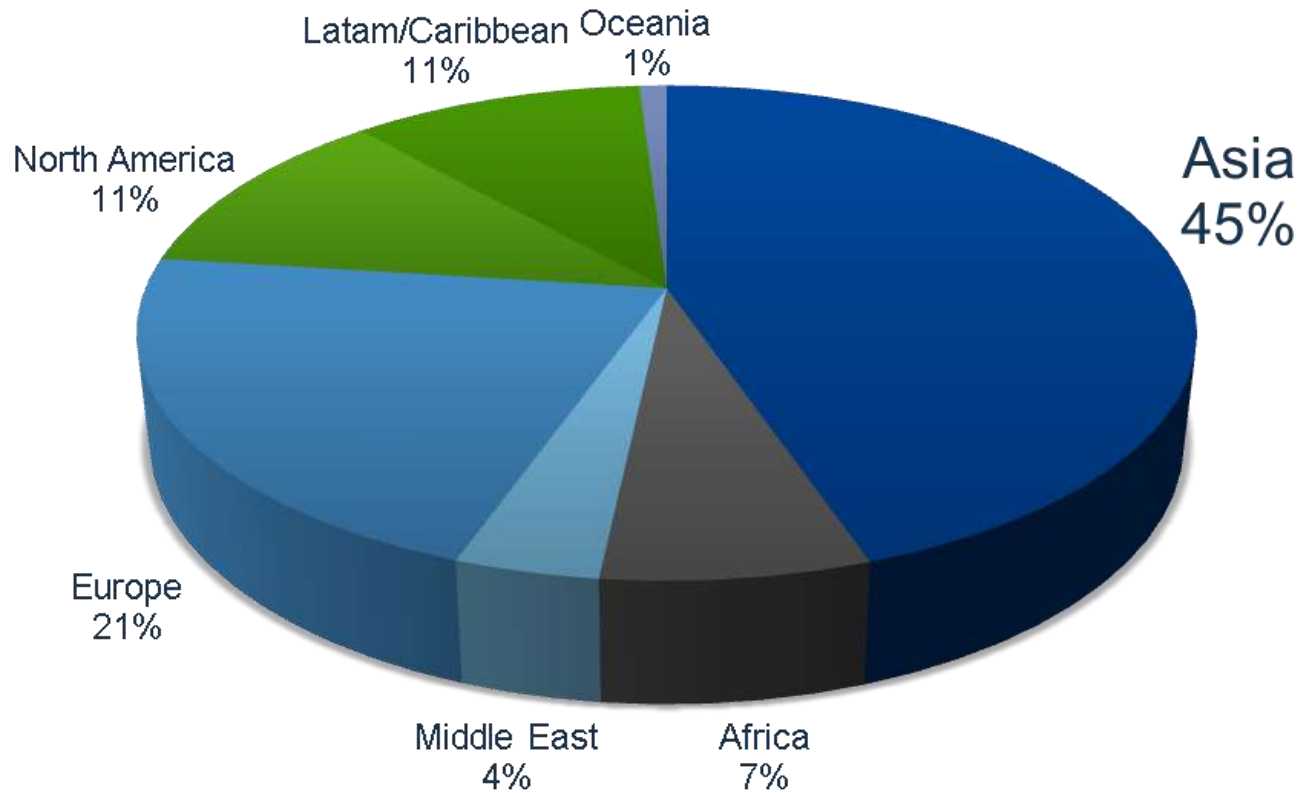
- ❑ More than **50%** of the population lives in **non-Latin speaking countries**
- ❑ **69%** of **.com websites** are in **English**
- ❑ Only **2%** of **domain names** worldwide are **IDNs**

User Perception

per·cep·tion

the way you think about or understand someone or something

Internet Users Distribution Worldwide



<http://www.internetworldstats.com/stats.htm>. Accessed April 15, 2014

Internationalized Domain Names in Applications by the Internet Community



1.3 billion customer reviews

"I clicked on this link 福祥邓.cc and my browser transforms it into xn--jjz7c761f.cc. This is not where I wanted to go in the first place!"

Chinese user

The **5 most popular desktop browsers** have **strong support for IDNs** in their latest versions. In **mobile devices** there is **poor support** for IDNs

Only **2%** of domain names worldwide are IDNs

"Is this domain name real? I've never heard about domain names in local language."

Thai user

"I cannot use my IDN email to sign up to Facebook or Twitter!"

Russian user

0% of the world's most popular websites **allow IDN email addresses** as user accounts

How Well Applications Support IDNs

Internet browsers



Email clients



Search engines



Social media



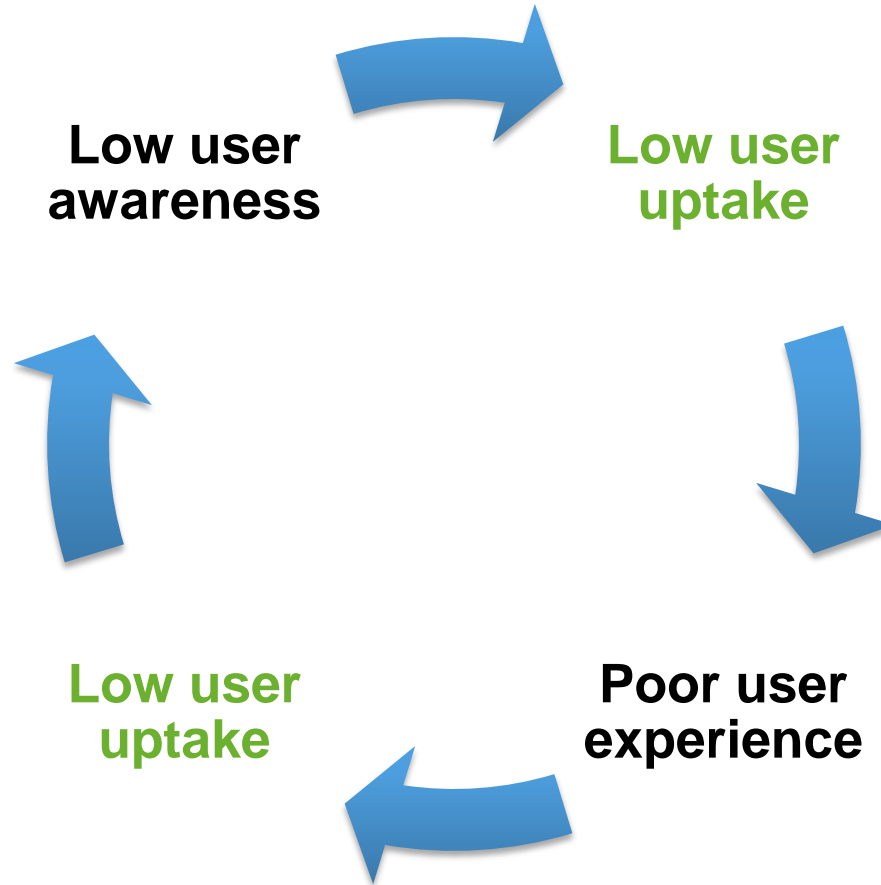
Software tools



End user awareness



Negative Cycle



User Perception Highlights

- ❑ **End user awareness of IDNs is low**
- ❑ **With the exception of Internet browsers, user experience in applications is poor**
- ❑ **Poor user experience is a barrier to greater IDN adoption**

2013 Insights from Asian Businesses

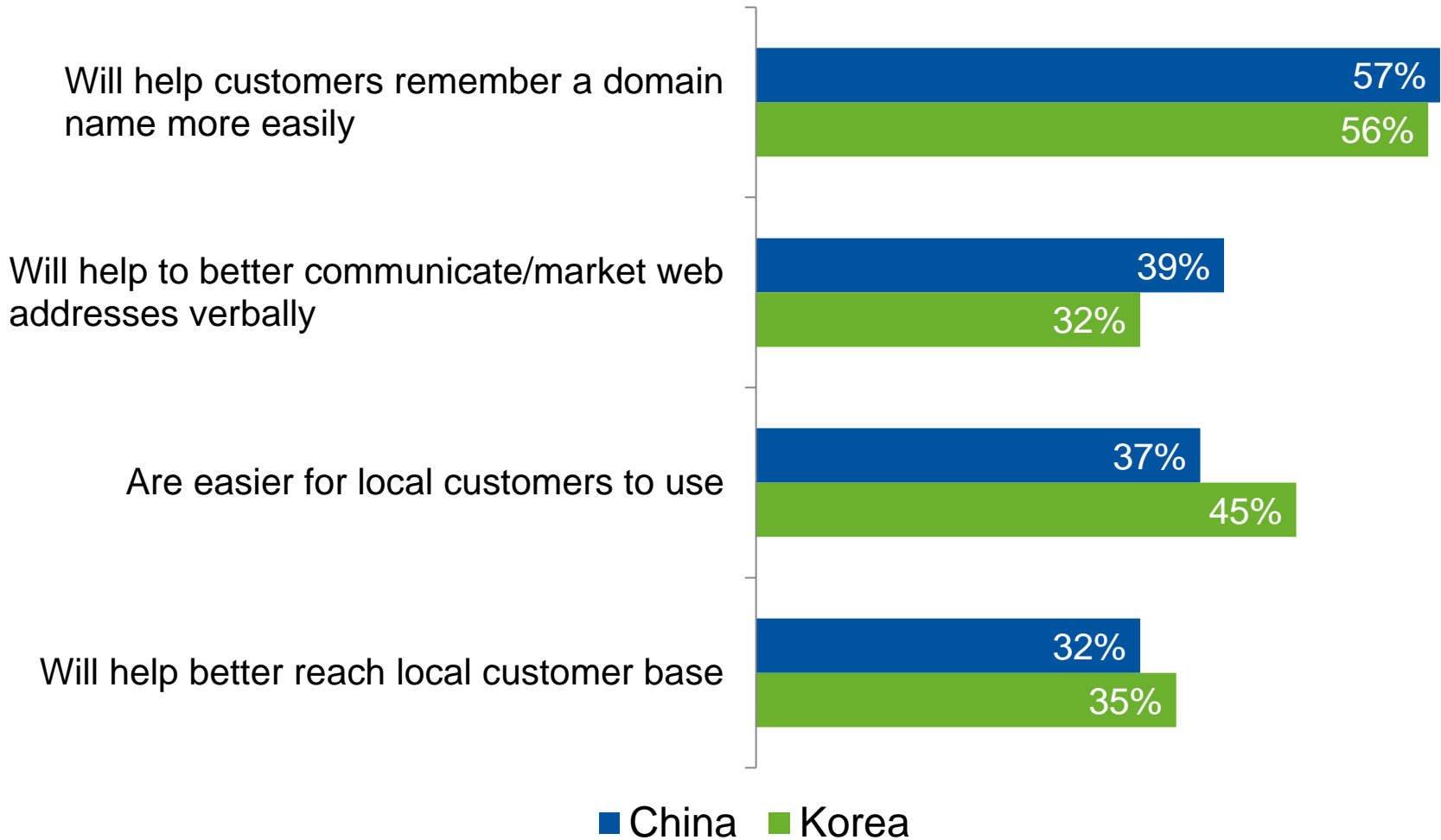


Insights

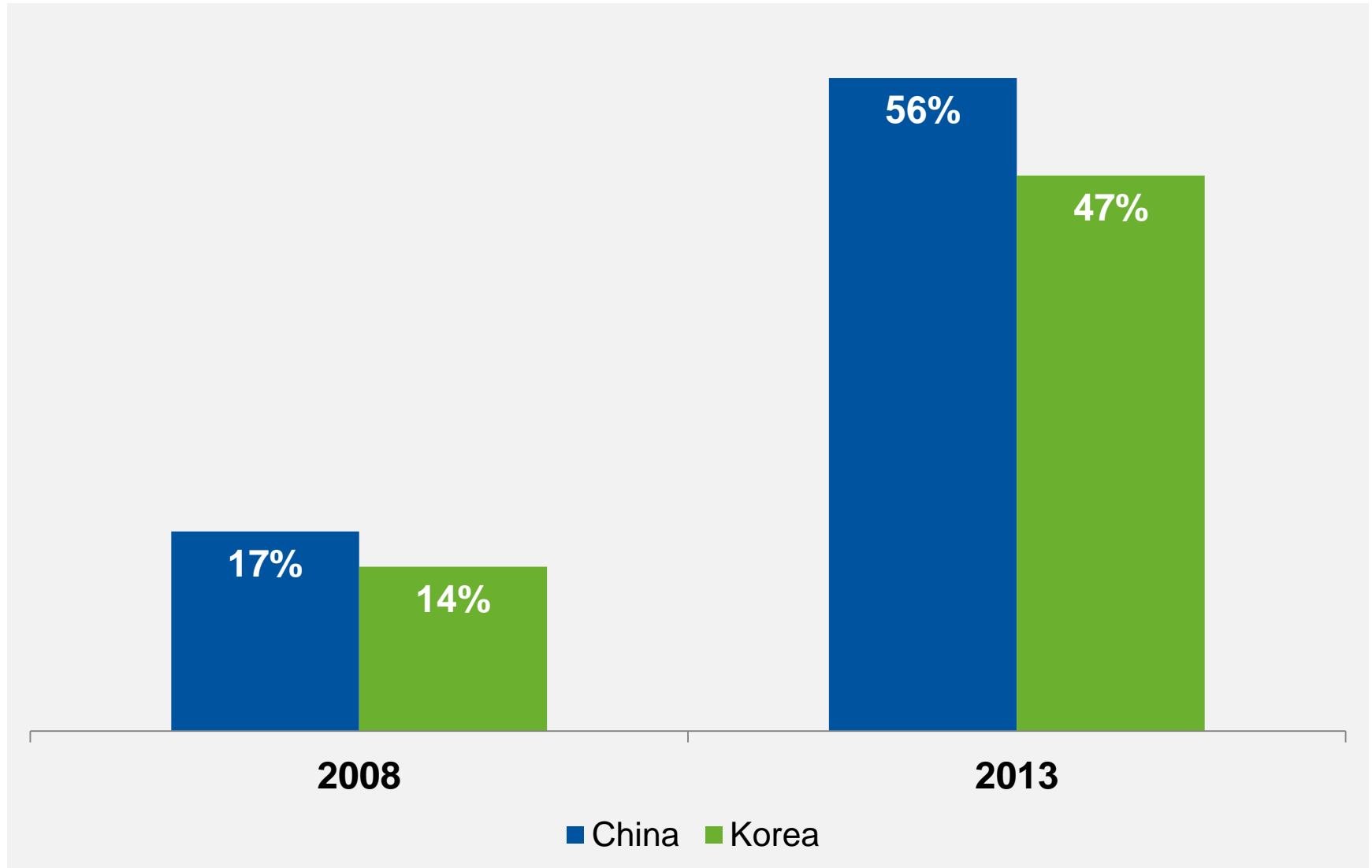
- Users expect domain names in ASCII
- But they search the Internet in local language
- Low to moderate awareness of IDNs
- Some are aware of usability issues

BUT ...

Top Benefits of Local Domain Names



Likelihood to Register IDN.IDN Among SMBs



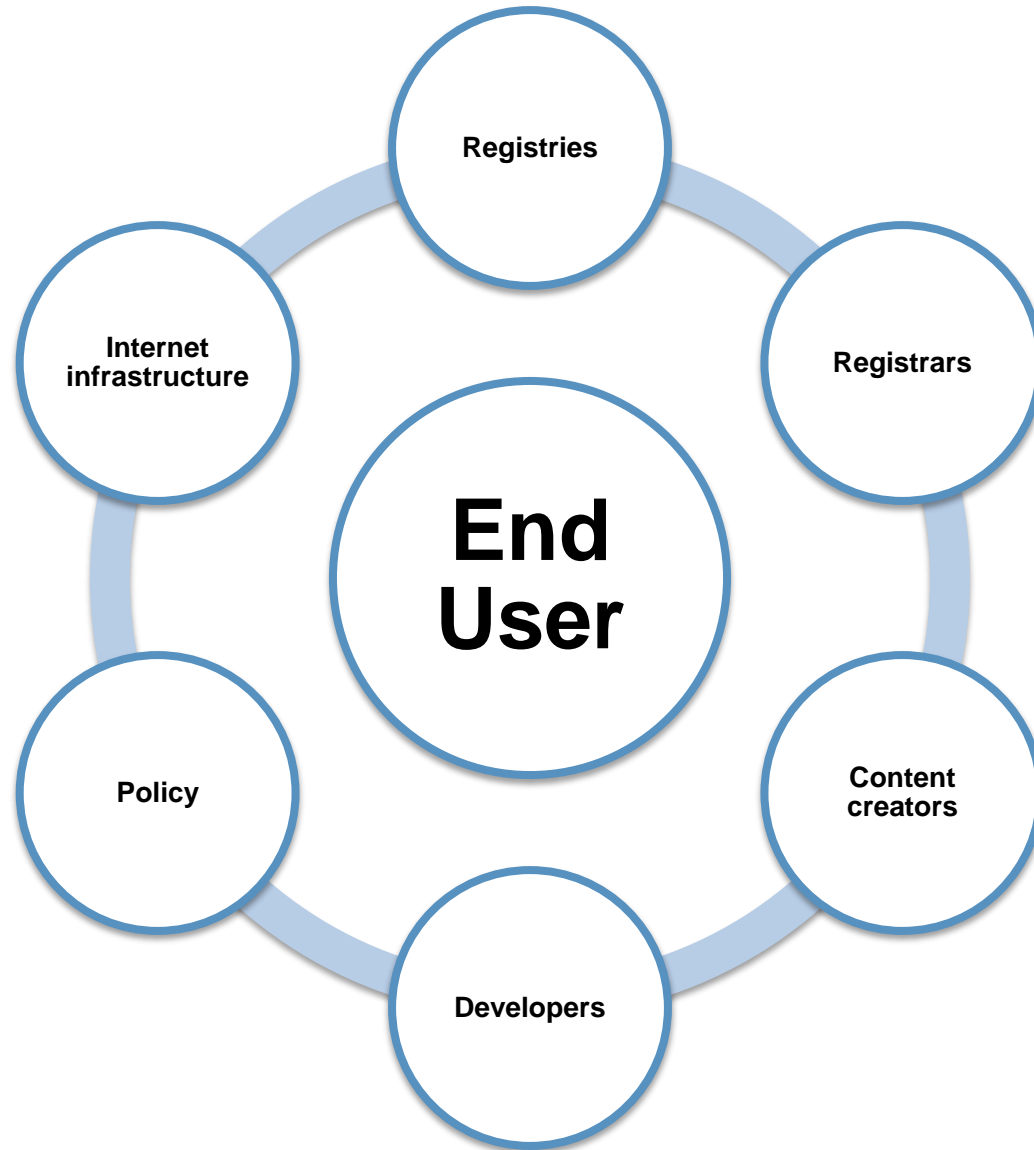
Likelihood to register IDN.IDN after educating the respondent. Top 2 Boxes on a scale 1 to 5, where 1 is extremely likely and 5 is not at all likely

Asia Insights Highlights

- ❑ Users expect domain names in ASCII
- ❑ Low adoption of IDNs, but there is a recognition of its benefits (i.e. easier to understand and share)

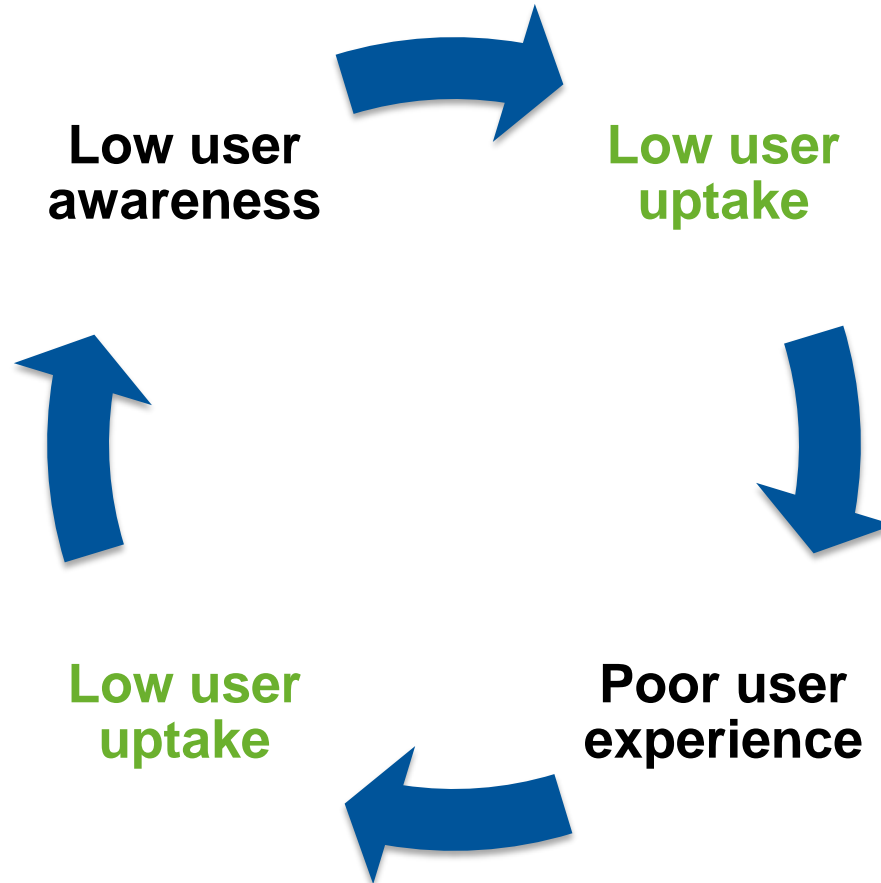
Call to Action

The Internet Community





Let's Break the Negative Cycle



“If you talk to a man in a language he understands, that goes to his head. If you talk to him in his language that goes to his heart.”

- Nelson Mandela

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