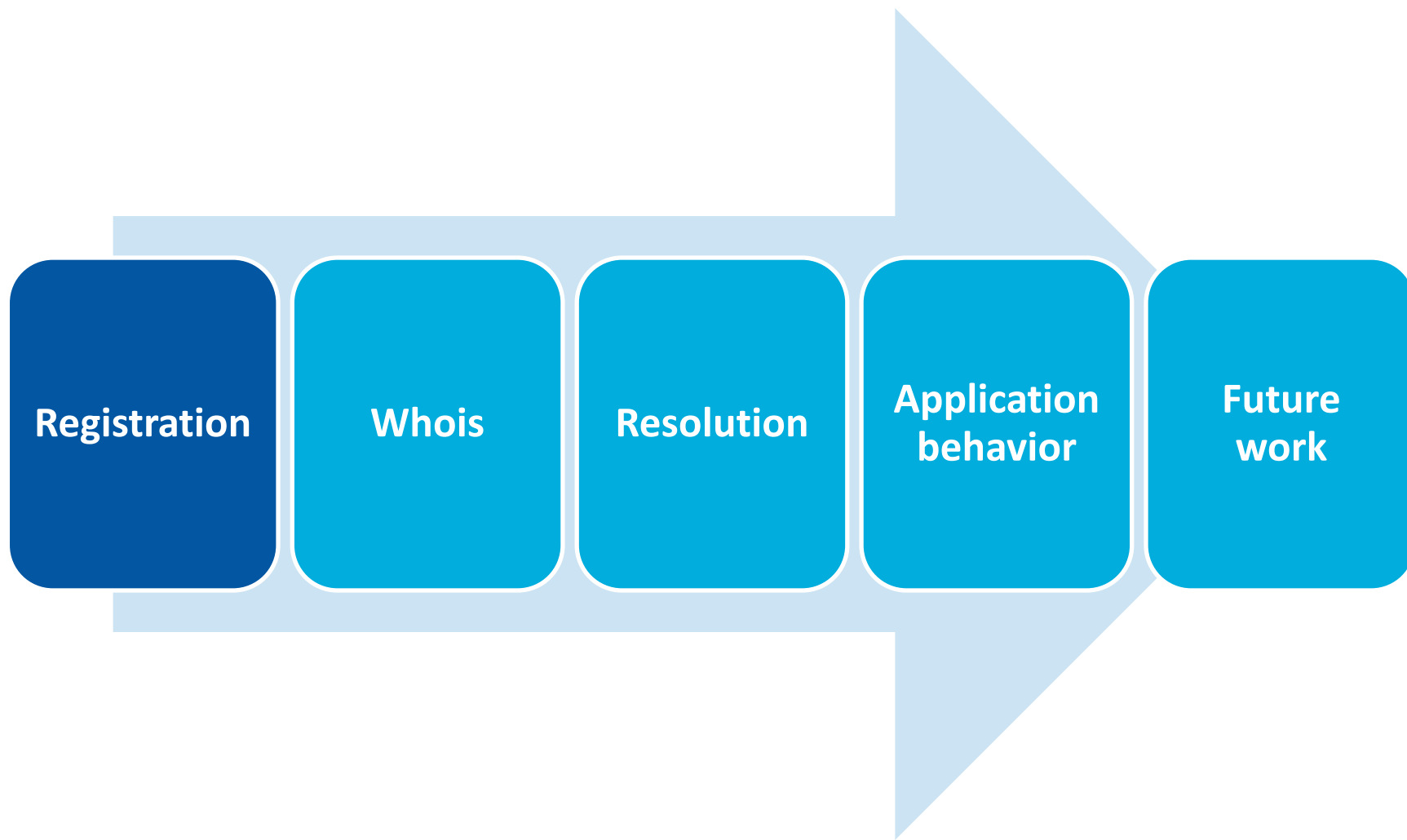




# Experiences Sharing on “.中国/中國”

Prof. Xiaodong Lee



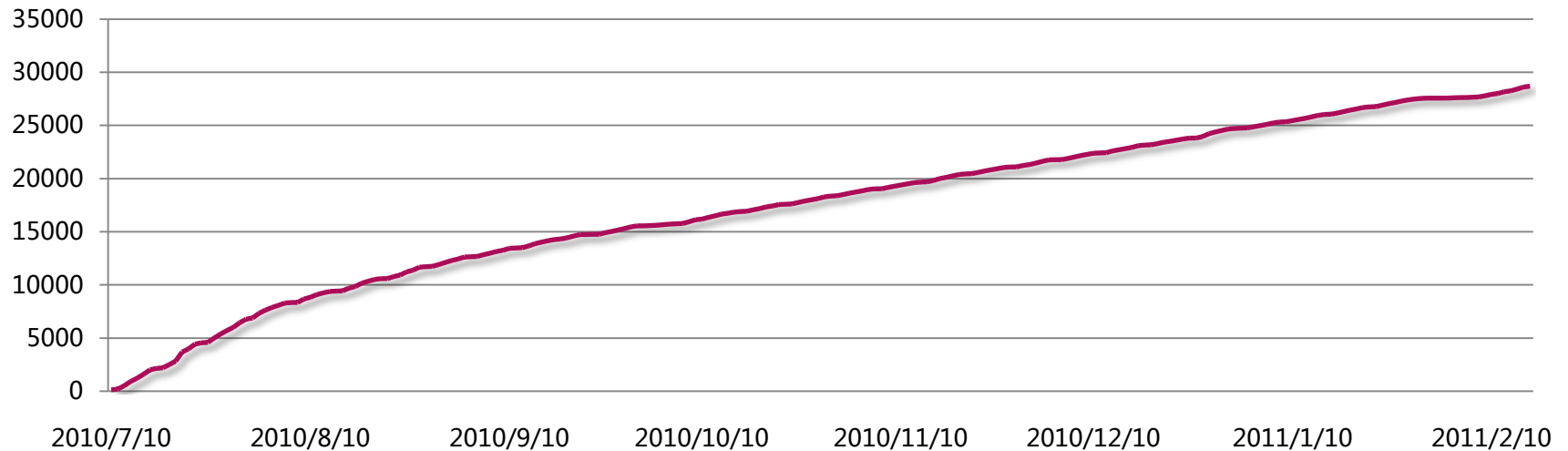


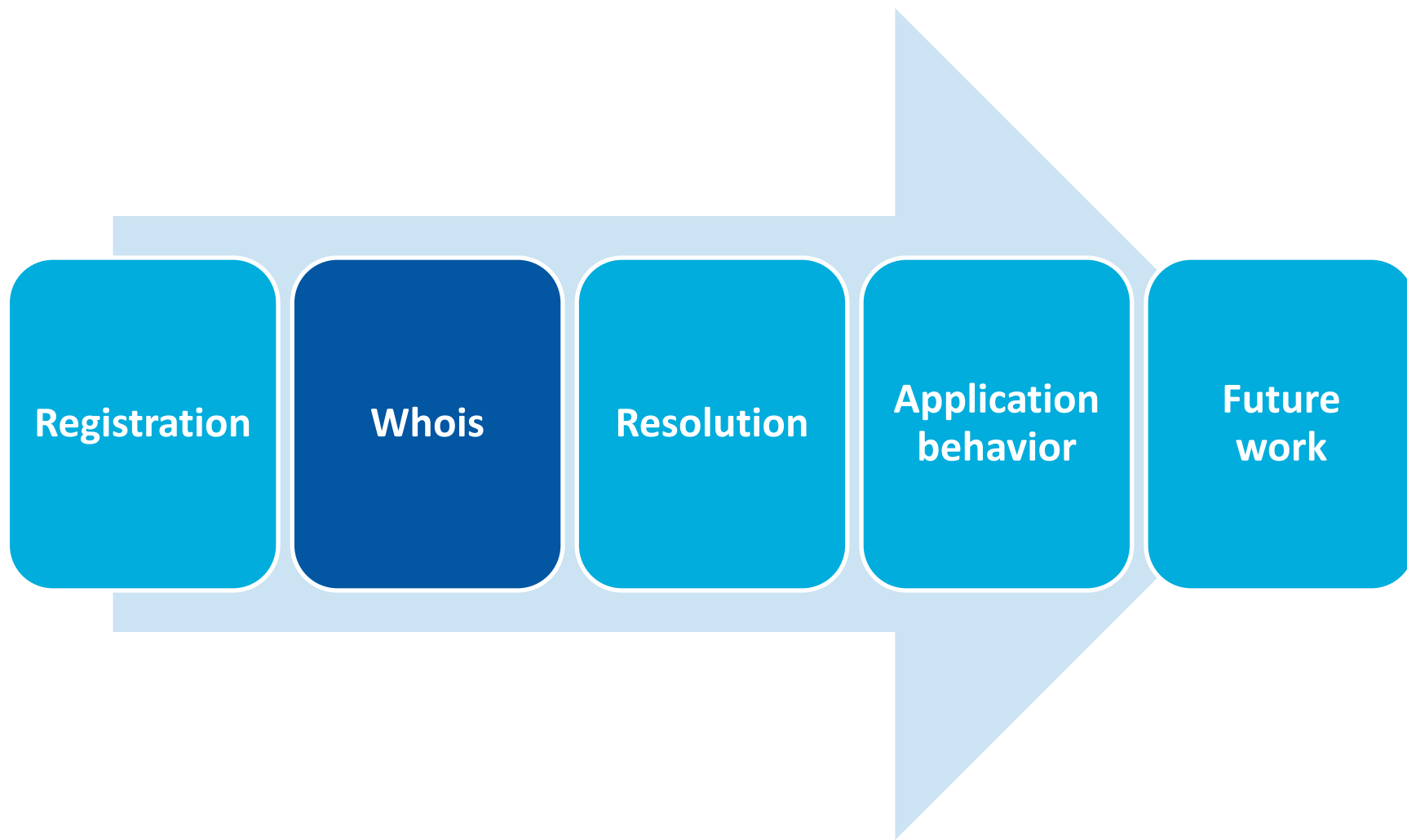
- **Comply with RFC3743(for CJK) and RFC4713(for Chinese)**
- **Chinese domain name labels and their variants under .中国 and .中國 must be delegated to the **same registrant****
  - One original domain name can be in mixed traditional Chinese and simplified Chinese characters.
  - One domain name in simplified Chinese characters totally
  - One domain name in traditional Chinese characters totally
  - Other combination of mixed TC and SC characters are reserved for the registrant
  - The registration of Chinese domain names under .中国 and .中國 are bundled
  - Mostly, only two will be added into Zonefile

- Statistics of registration by Feb. 15<sup>th</sup> 2011
  - 352812 Chinese domain names have been registered
  - 78836 (22.3%) names have no variant names , 77.7% have variants
  - 131230 (37.2%) names are not delegated to a NS, not resolvable

Accumulated Increment of Registration

Data from Jul. 10<sup>th</sup> 2010 to Feb. 16<sup>th</sup> 2011



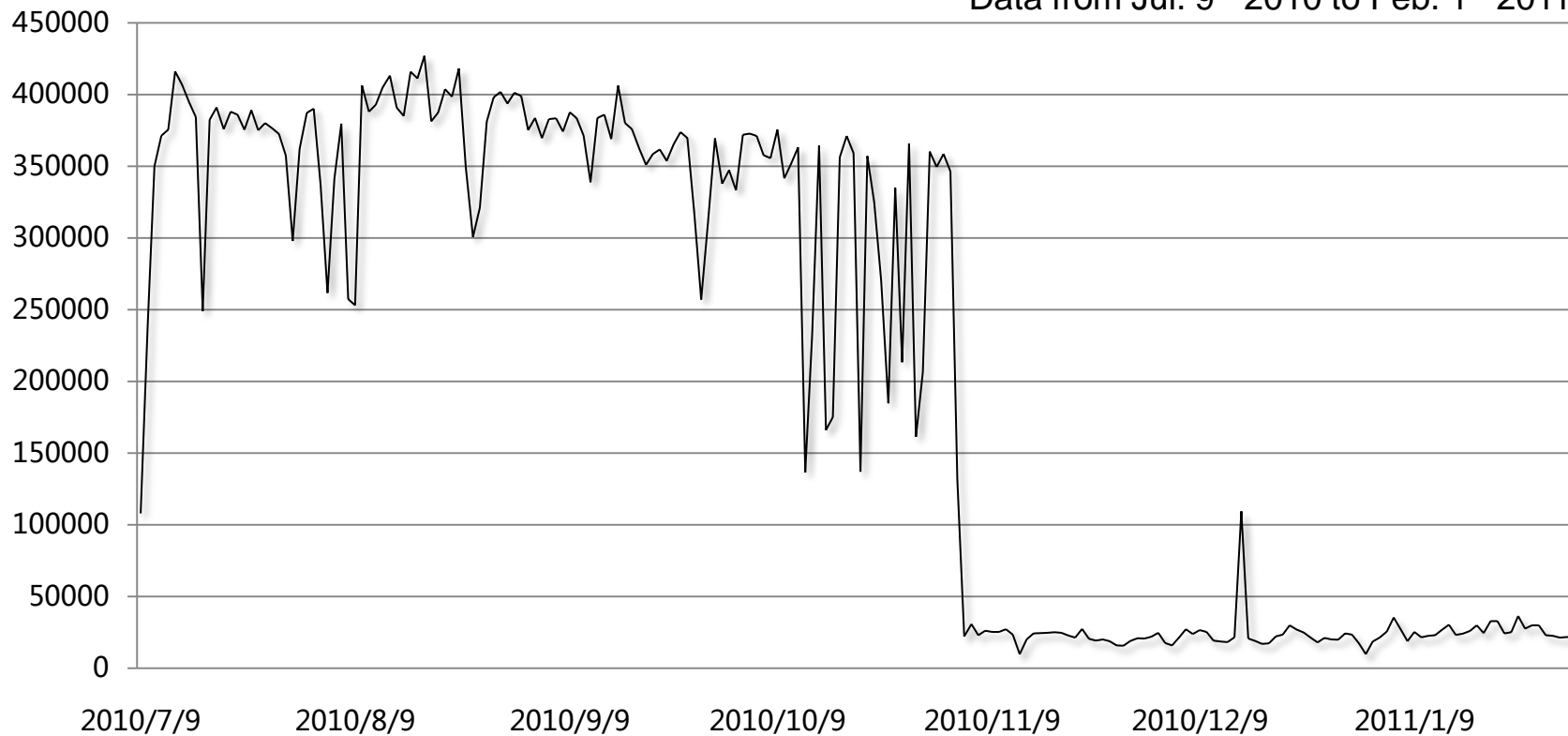


- Whois services are provided to the Chinese domain names under “.中国/ 中國”
  - Use port 43, over TCP
  - Supports the contact, host and domain name query
  - Character encodings (UTF-8) are being used in query strings and output
  - When a Chinese domain name is queried, All the bundled domain names of it will be automatically shown

Domain Name	域名	李晓东.中国 李晓东.中國 李曉東.中国 李曉東.中國 李晓东.cn 李曉東.cn
Status	域名状态	ok
Contact	域名联系人	闫蕊
Registrar	注册服务机构	北京中科三方网络技术有限公司
Email	管理联系人电子邮件	<a href="mailto:servicei@cnnic.cn">servicei@cnnic.cn</a>
Domain Name Server	域名服务器	ant.cnnic.cn
Creation Date	创建日期	2005-06-24 13:38
Expiring Date	过期日期	2015-06-24 13:38

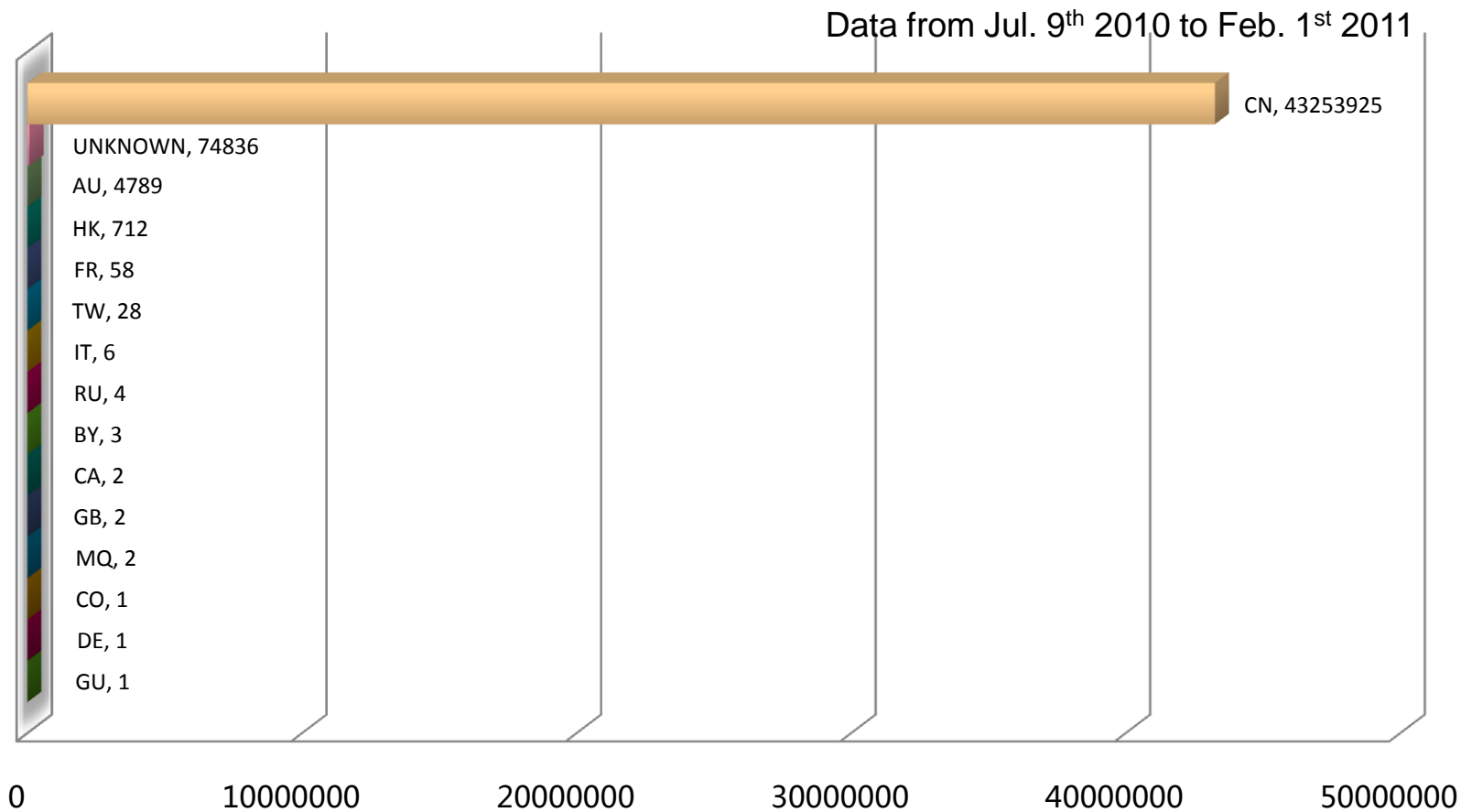
- Some registrars did plenty of whois queries after .中国/中國 are delegated.
- Risk caused by cybersquatting should be considered at the startup of new TLD .

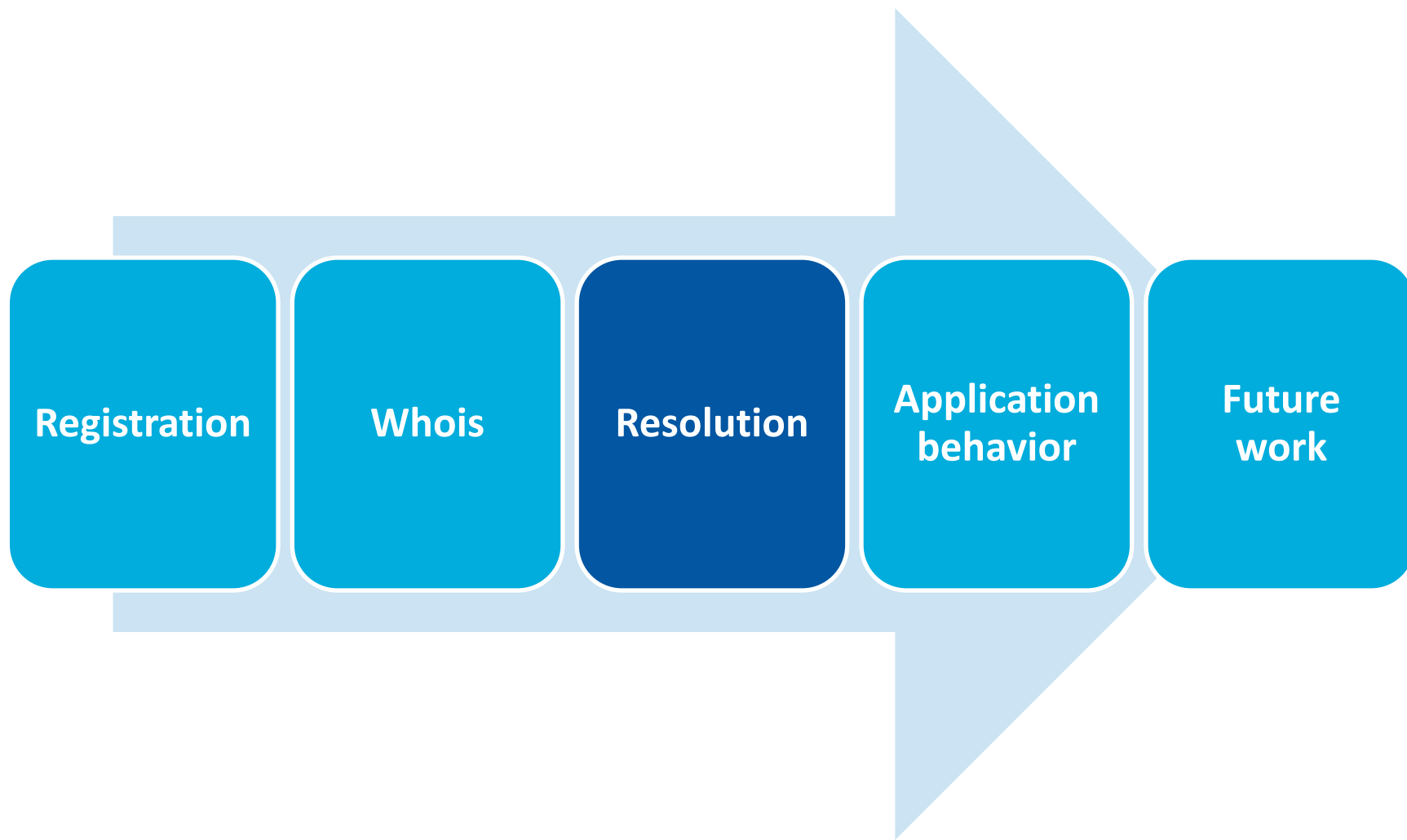
Data from Jul. 9<sup>th</sup> 2010 to Feb. 1<sup>st</sup> 2011

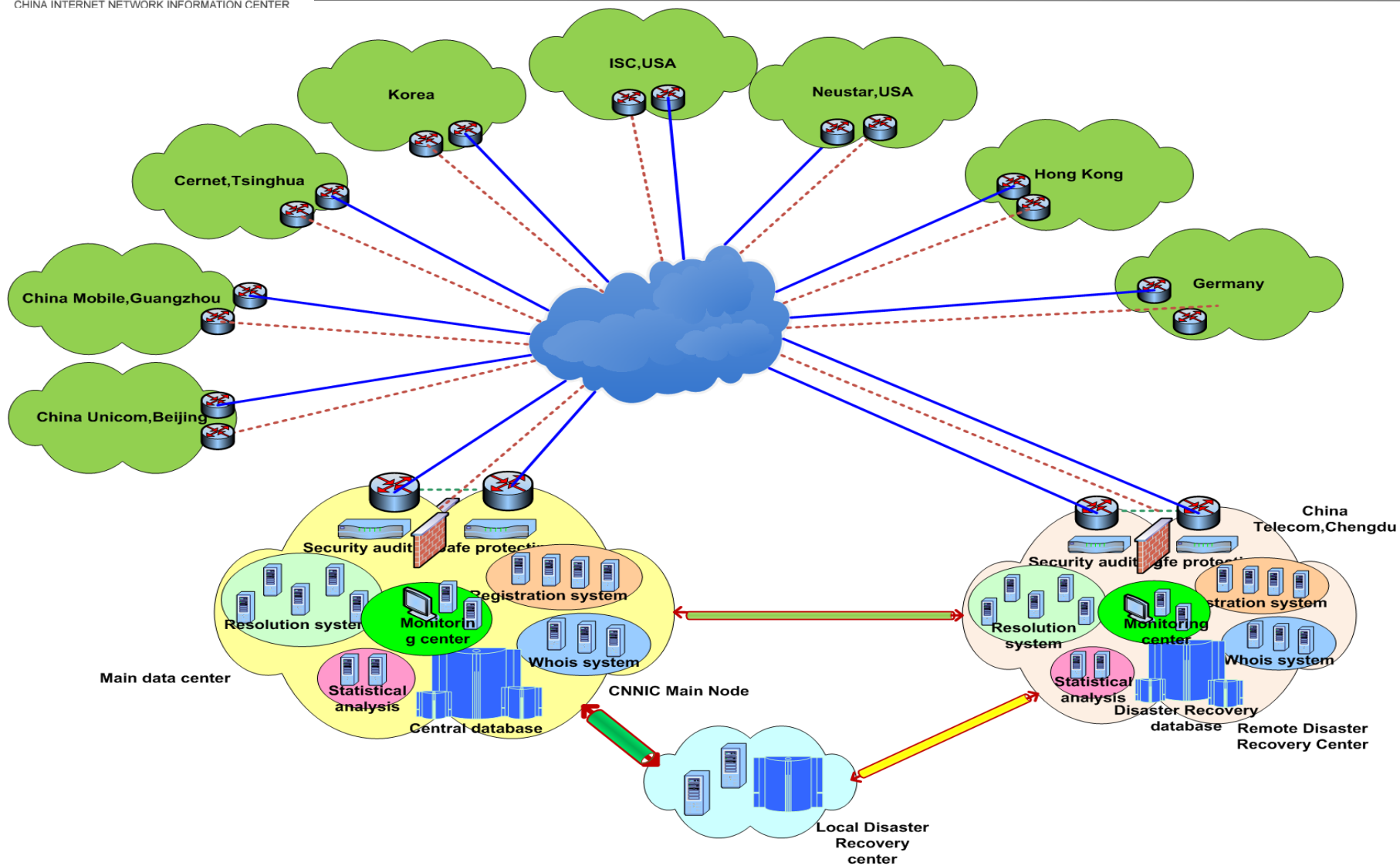




## Whois Queries were mainly from Mainland China (Based on source IP)

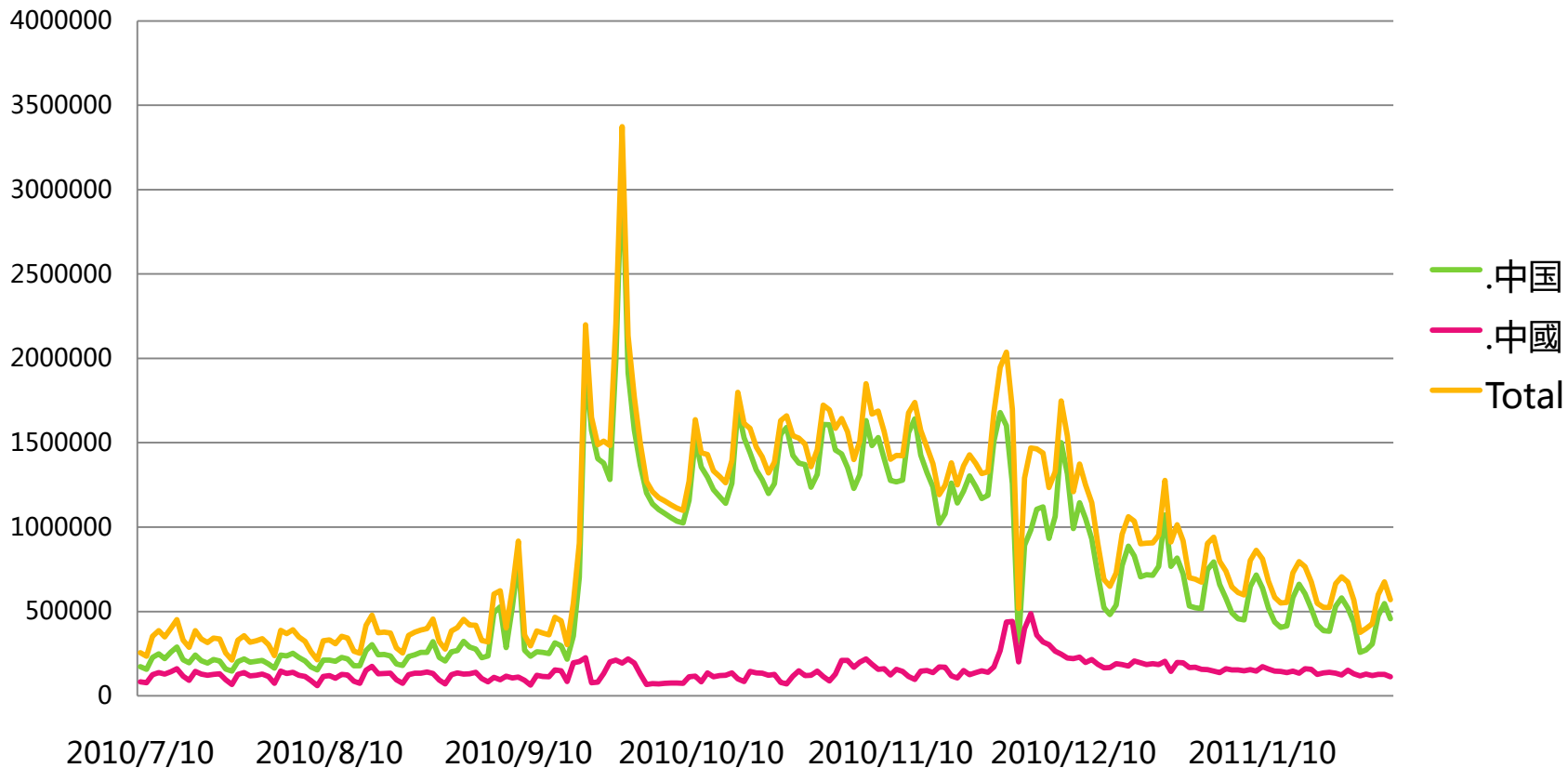






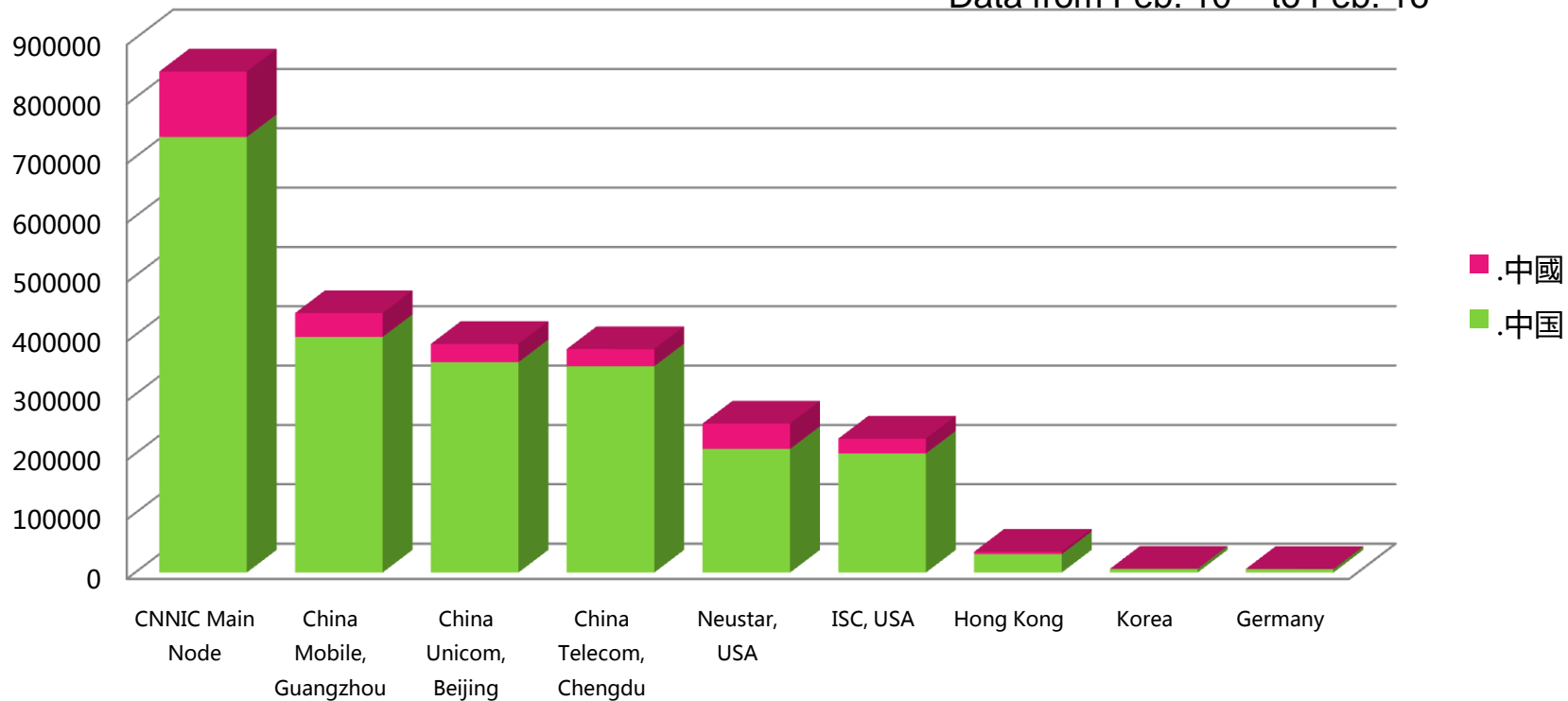
There are tests in the last months of 2010 by CNNIC

Data from Jul. 10<sup>th</sup> 2010 to Jan. 31<sup>st</sup> 2011

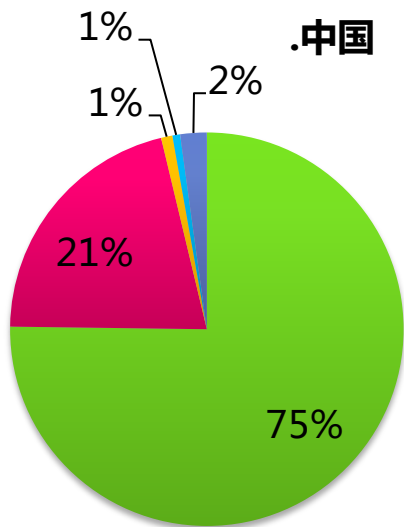


Servers in China are busier, the proportions of '.中國' in oversea servers are higher .

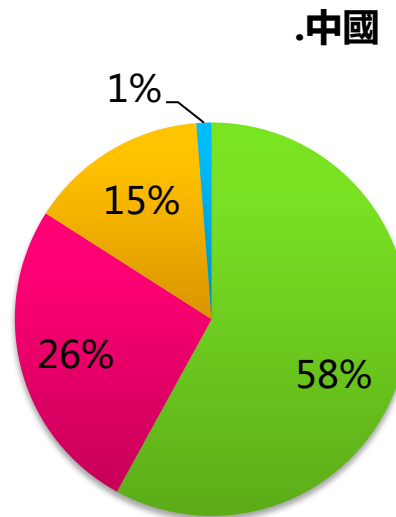
Data from Feb. 10<sup>th</sup> to Feb. 16<sup>th</sup>



# Distribution of Users Location



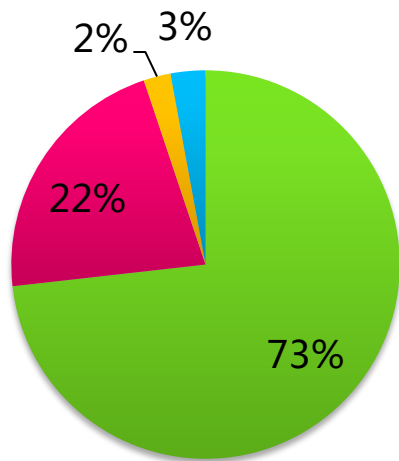
.中国



.中國



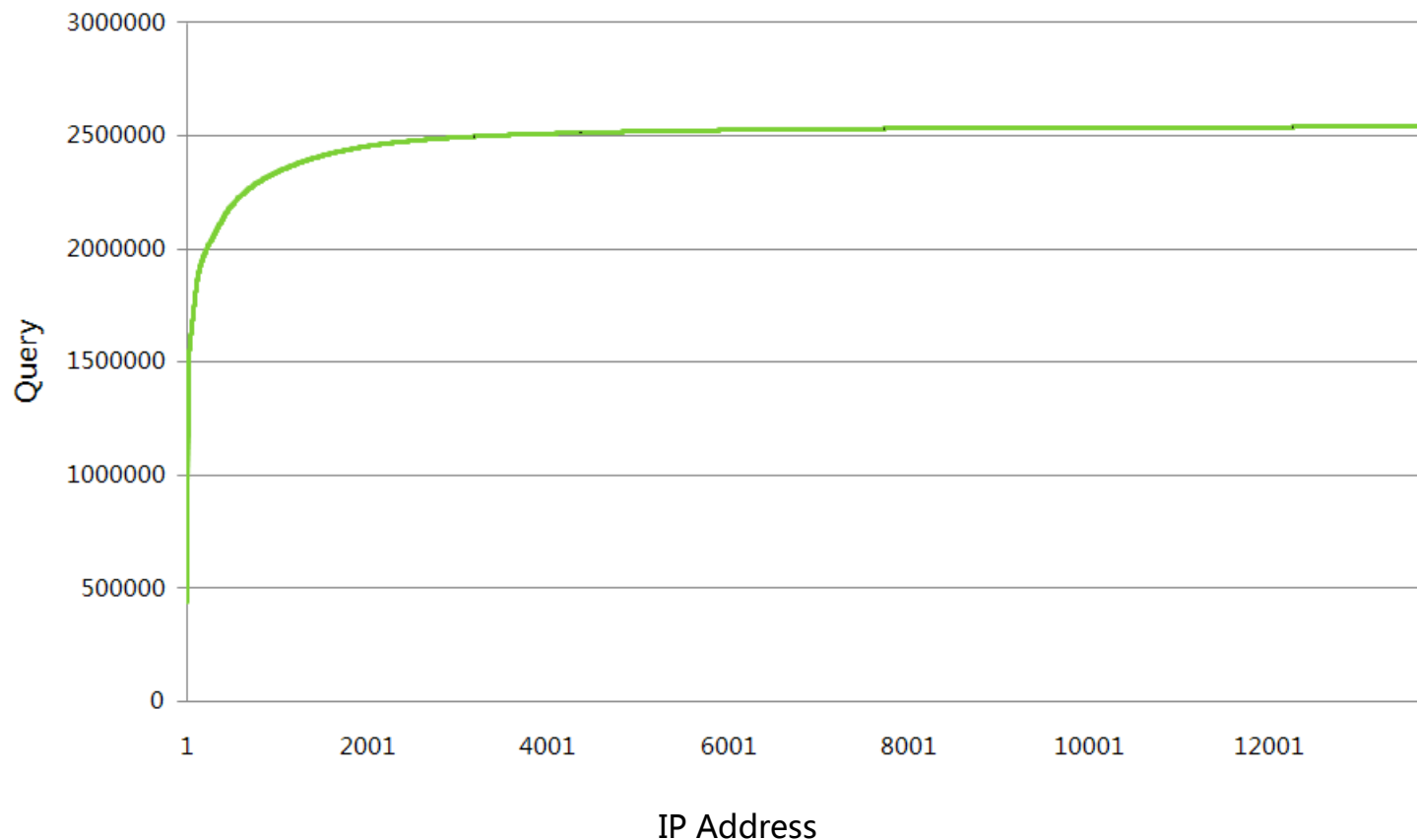
total



- Data are from Feb. 10<sup>th</sup> to Feb. 16<sup>th</sup>
- CDN are mainly used by domestic users
- 22% users are from USA
- More overseas users use .中國, the percentage of .中國 overseas usage is higher than percentage of .中国 overseas usage
- Mainland users also are querying TC

Queries were not evenly distributed, few IPs took most queries

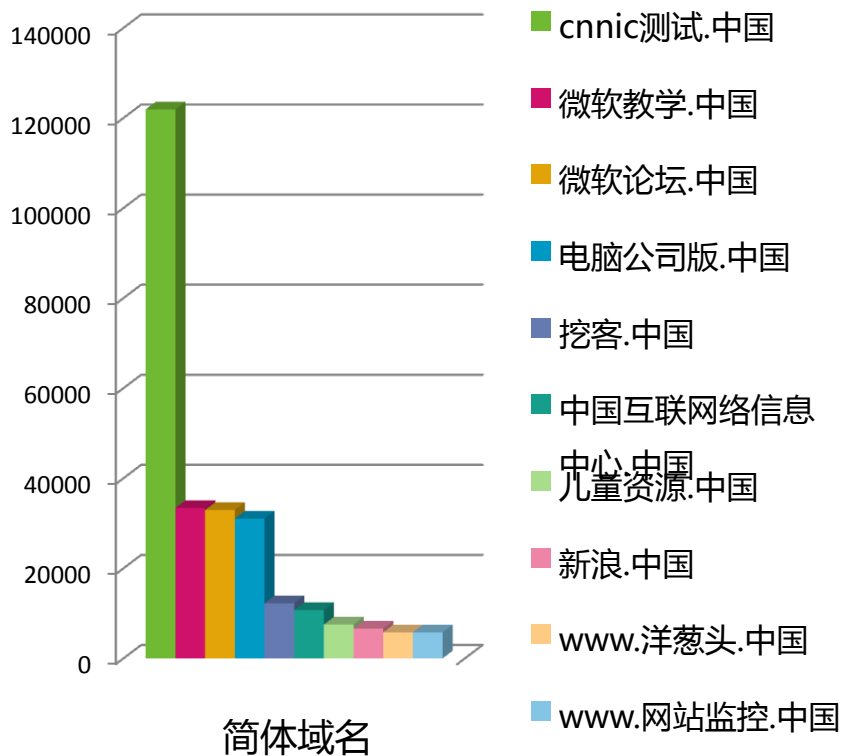
Data from Feb. 10<sup>th</sup> to Feb. 16<sup>th</sup>



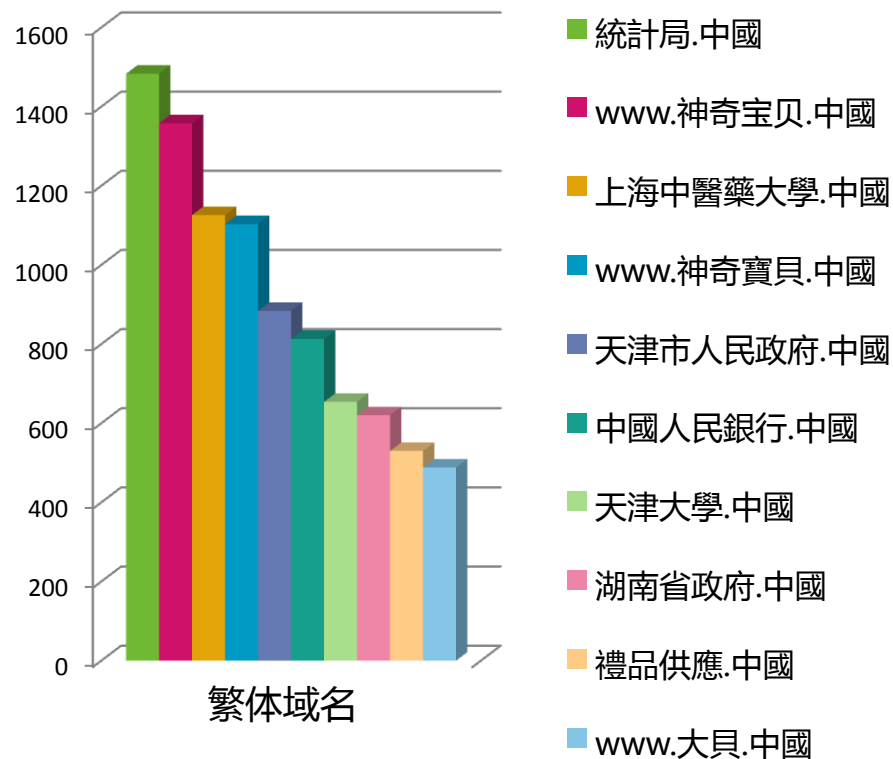
Popular websites of .中国 and .中國 are different.

Data from Feb. 10<sup>th</sup> to Feb. 16<sup>th</sup>

## TOP 10 of .中国



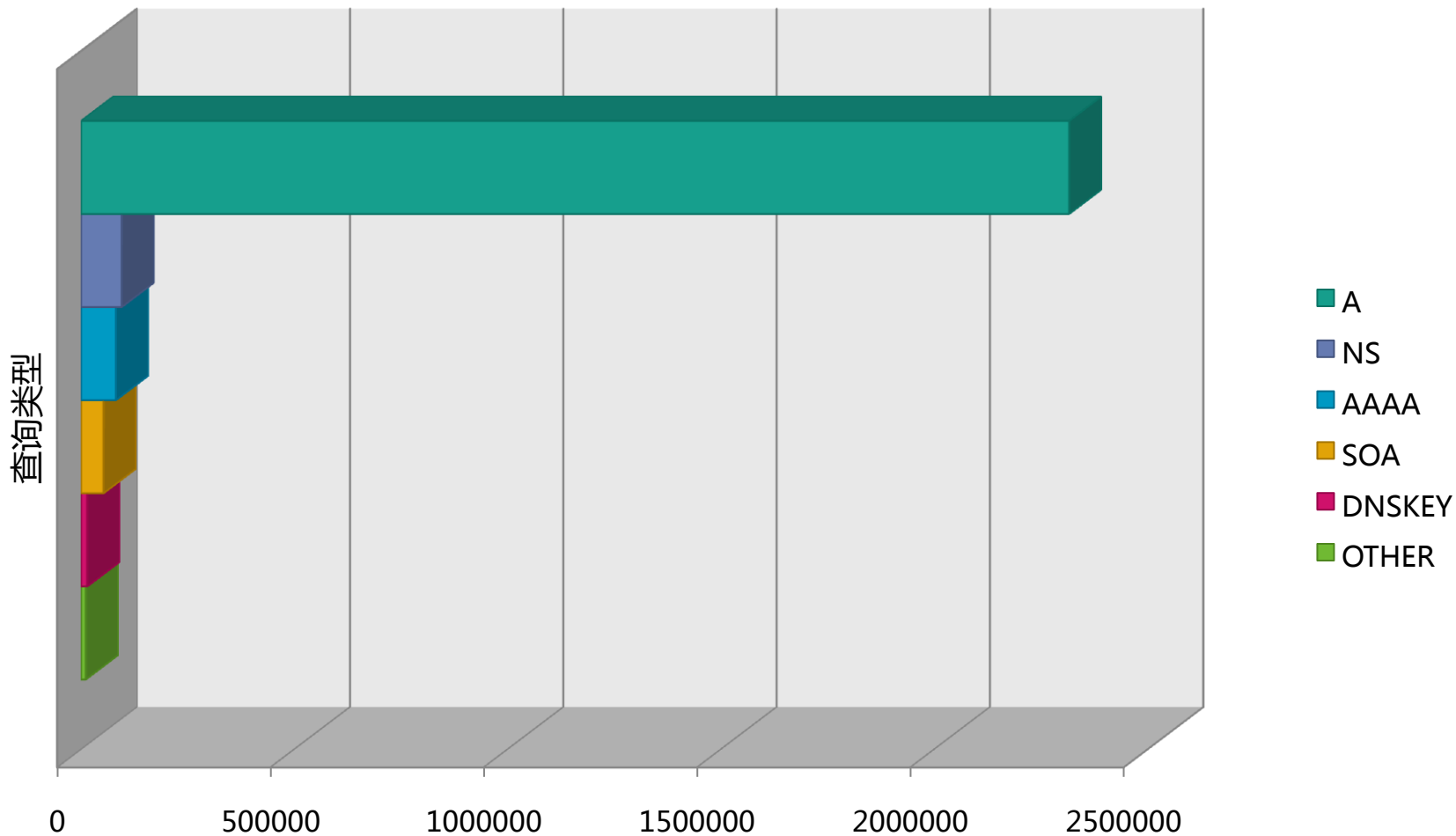
## TOP 10 of .中國





# Distribution of the Query Types

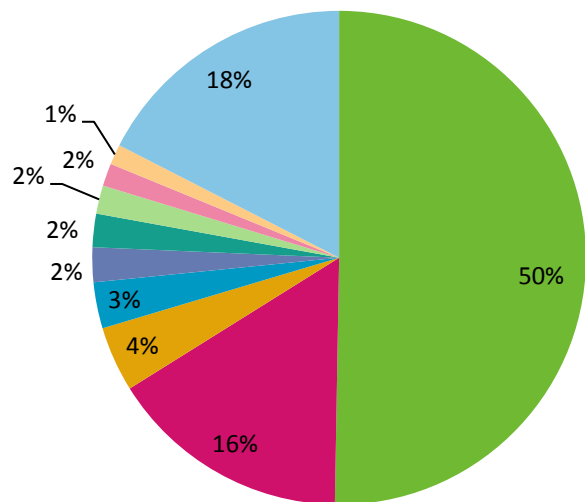
Data from Feb. 10<sup>th</sup> to Feb. 16<sup>th</sup>



The ratio of users from China to all users querying 世博会.中国 is higher than expo2010.cn  
The users from all the world query both 世博会.中国 and expo2010.cn

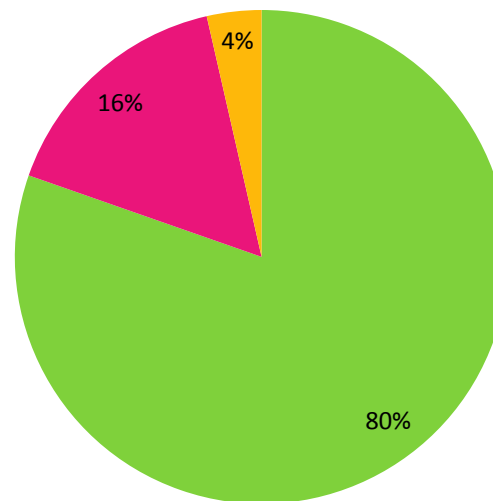
Data Collected From Oct. 17th – Oct 19th

expo2010.cn



- CN
- US
- JP
- HK
- DE
- TW
- GB
- CA
- RU
- OTHER

世博会.中国

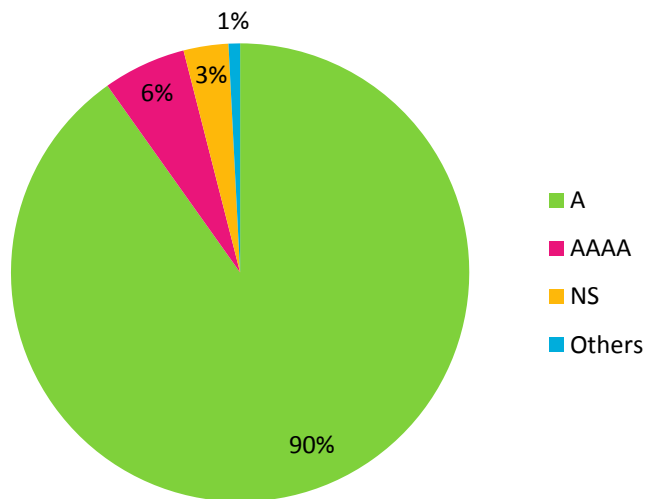


- CN
- US
- OTHER

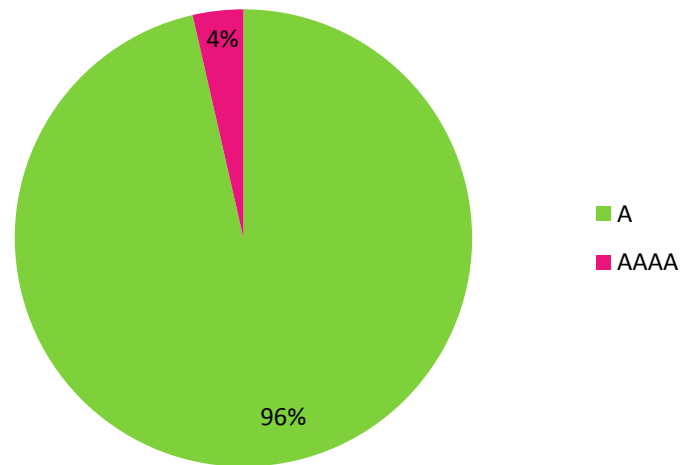
Both expo2010.cn and 世博会.中国, most of the queries are for A record

Data Collected From Oct. 17<sup>th</sup> – Oct 19<sup>th</sup>

expo2010.cn



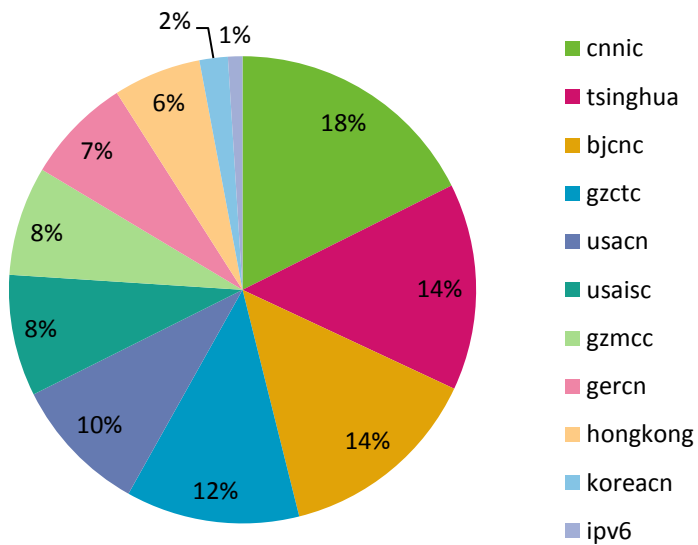
世博会.中国



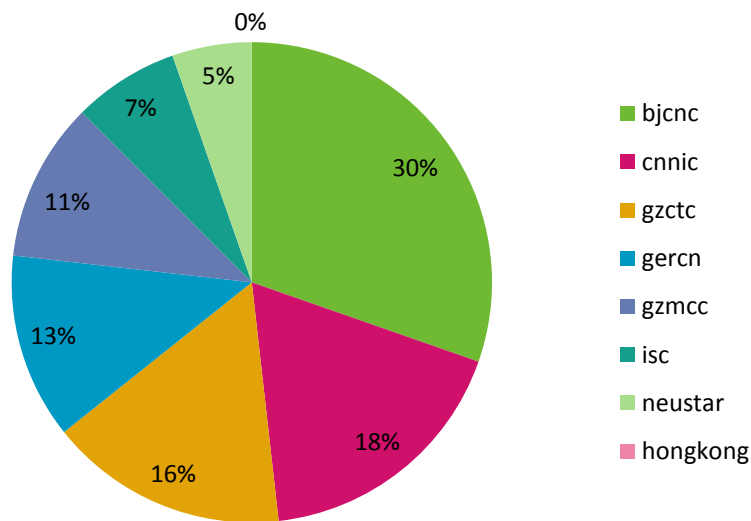
For both expo2010.cn and 世博会.中国, the servers in China are busier. The overseas servers also occupy plenty of proportion.

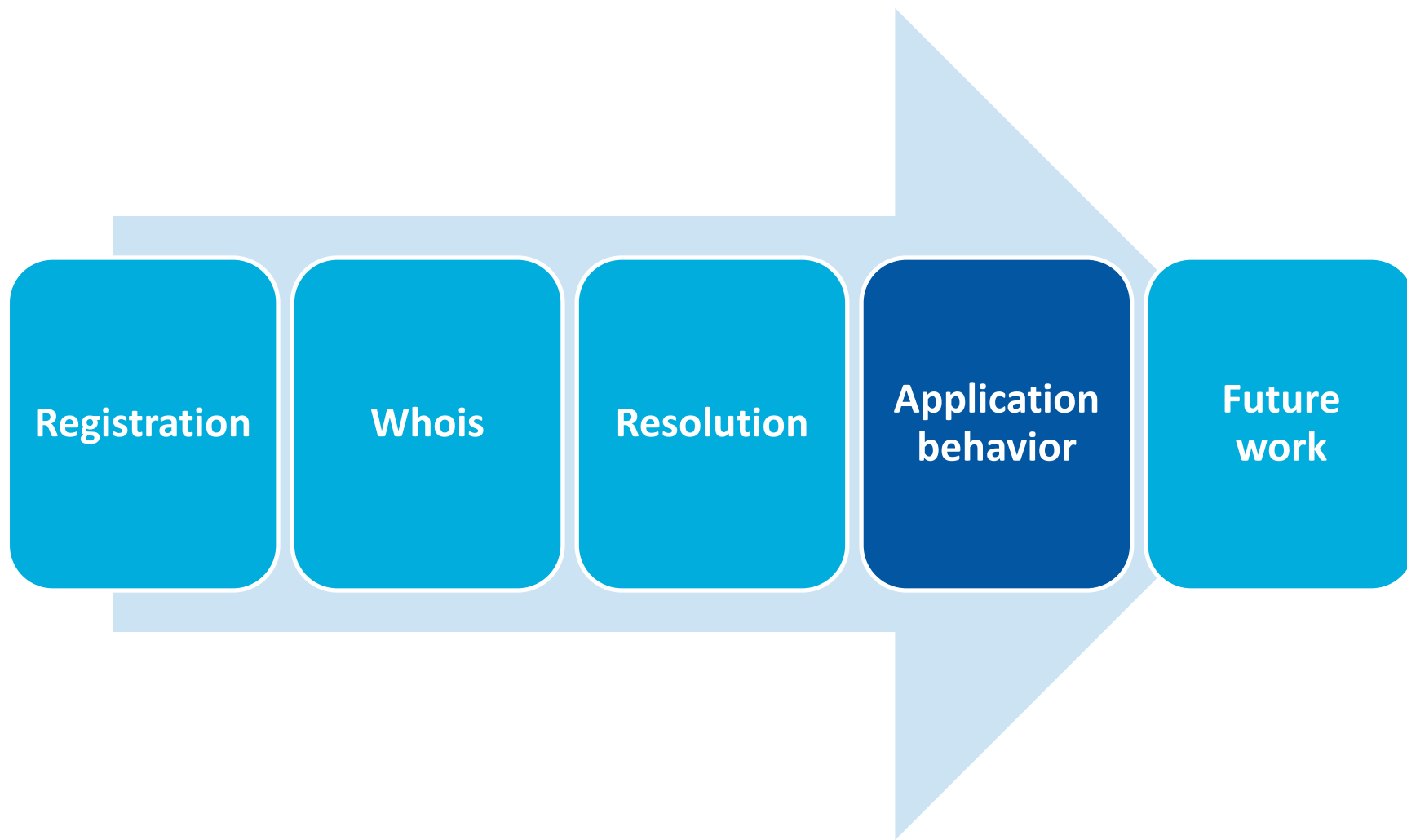
Data Collected From Oct. 17<sup>th</sup> – Oct 19<sup>th</sup>

expo2010.cn



世博会.中国

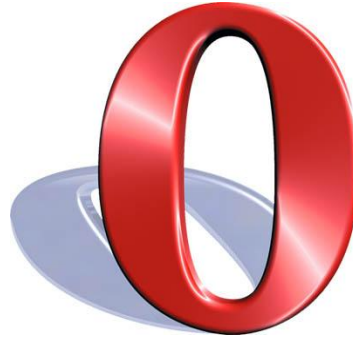




Welcome more supporting from various applications!



CHROME



OPERA



SAFARI

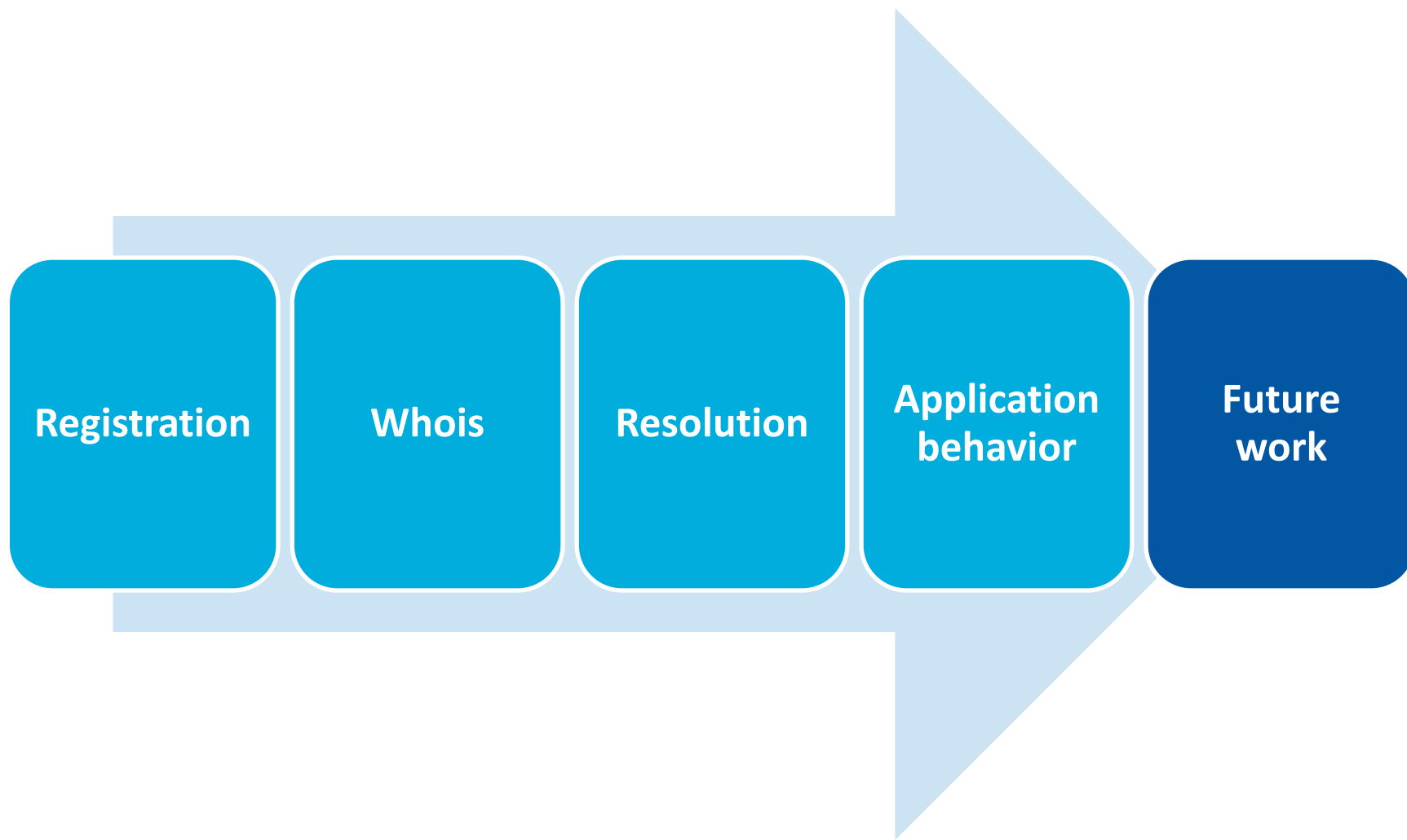


IE



FIREFOX







- **Extensible Provisioning Protocol(EPP) extension**
  - The <create> command is extended to assign the preferred variant name when the registrants register names.
  - The <update> command is extended to modify the preferred variant domain names when the registrants need.
- **Variant name equivalence evaluation**
  - Comparison Based on CDN Character Table
    - Convert the characters to simplified or traditional format, then do name comparison
    - In Front of Authoritative servers/In Front of Resolvers
- **Whois extension**
  - Extend protocols to support Unicode for IDN



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