

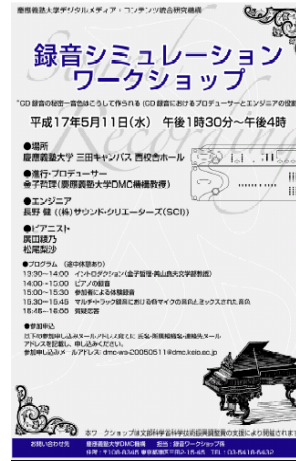
次世代インターネットへの責任

WIDE Project
Keio University

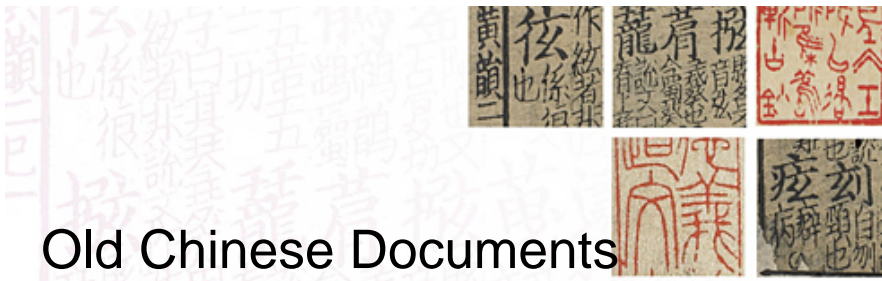
村井 純

Art and Intelligence

Museum



Music, Sound
and
Dance



Old Chinese Documents

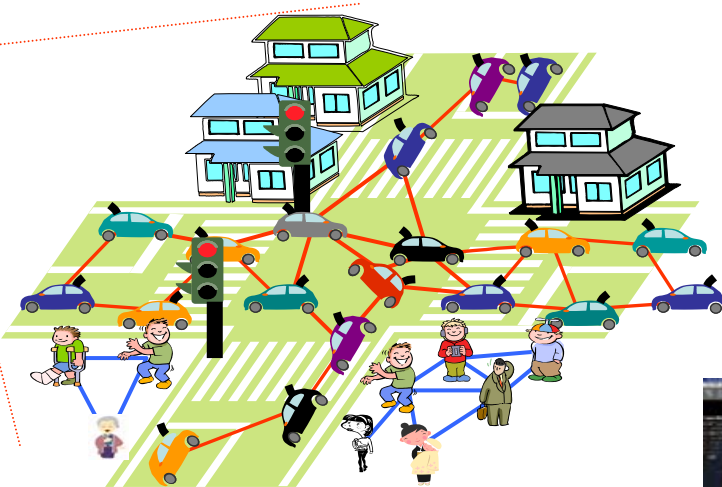
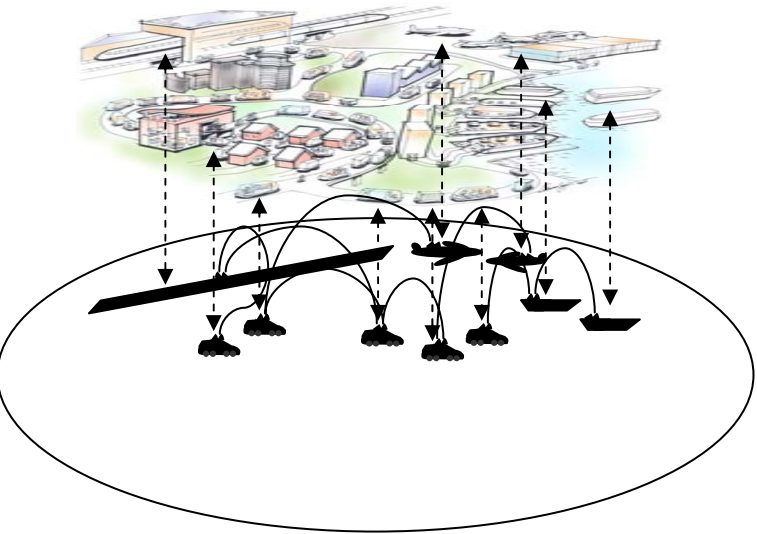


Very Important
and
Very Old Documents



Recovery of
the past

New Intelligence



Multicast

Tohoku Univ
Keio
DVTS (35Mbps)
Keio Univ

AIIT
ITB
UNIBRAW

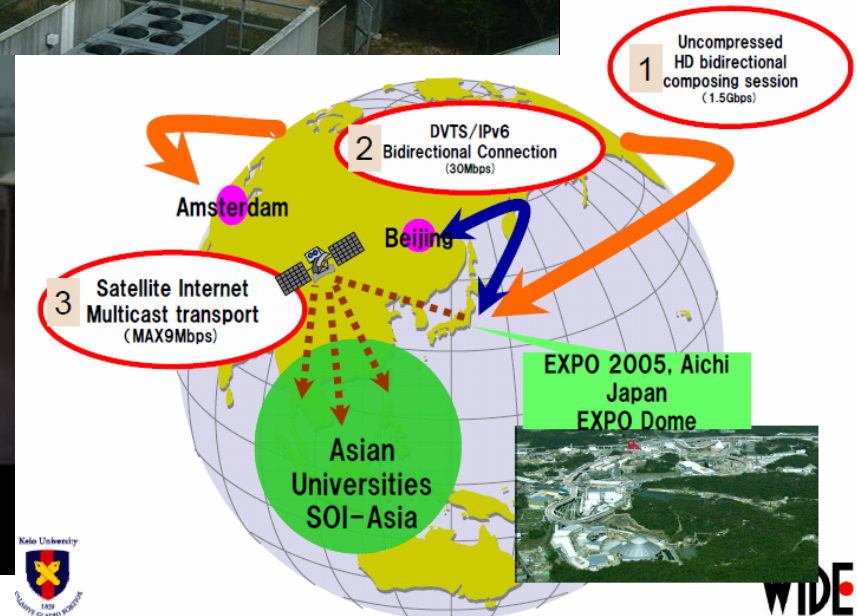
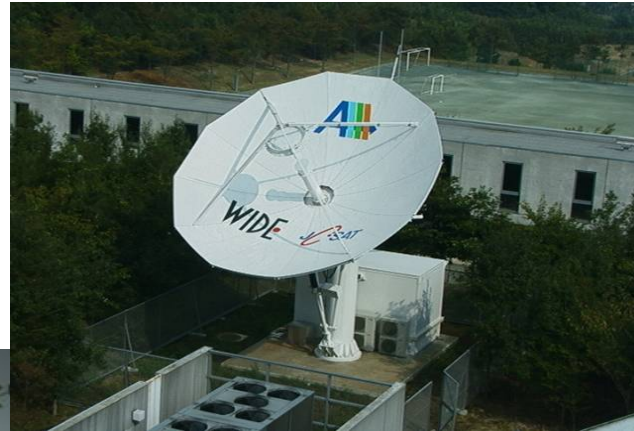
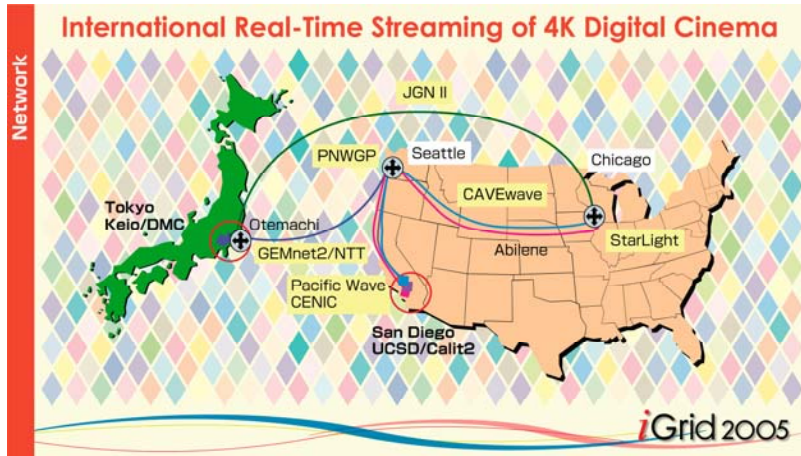
Damaged Area by Tsunami

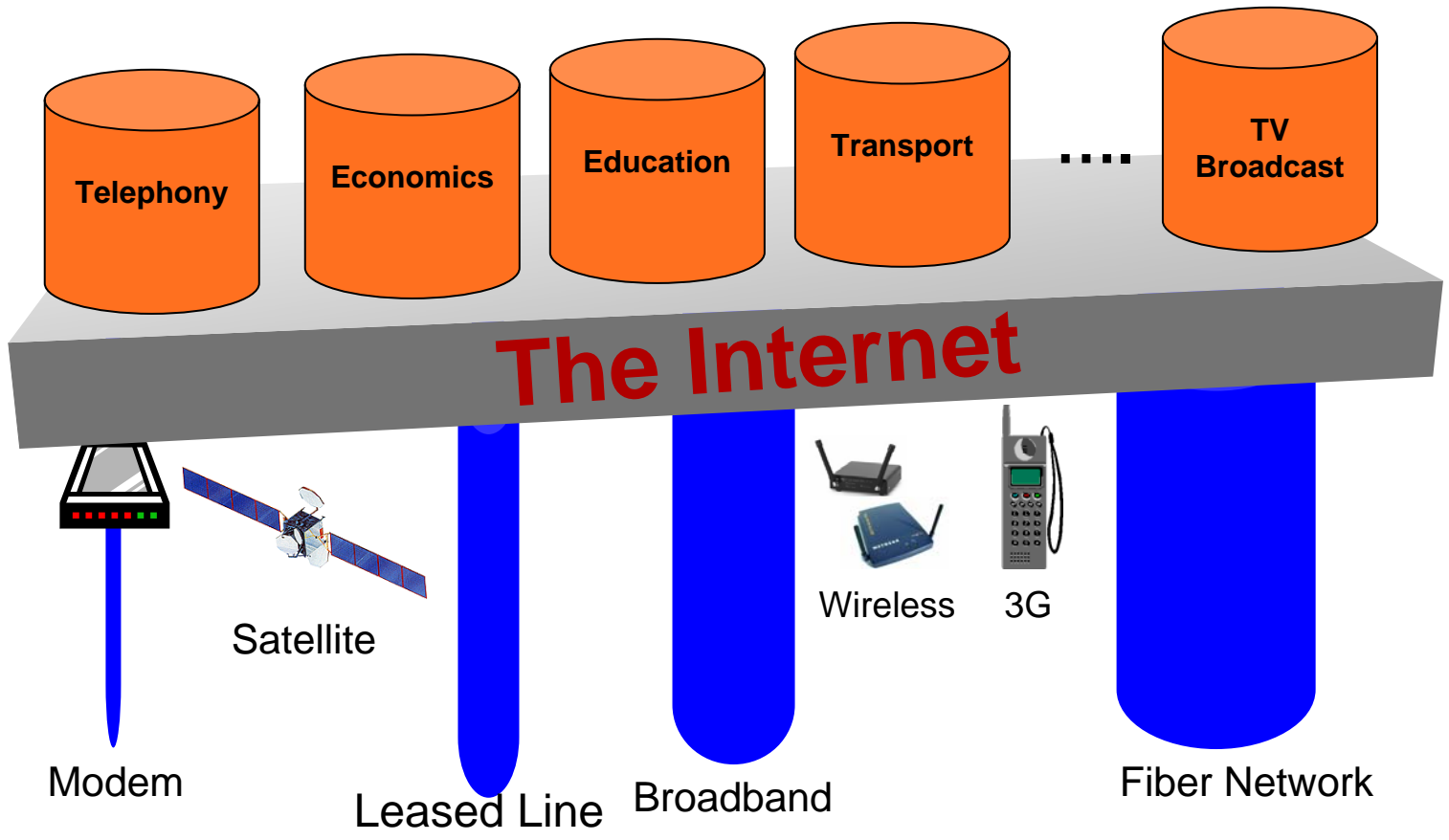
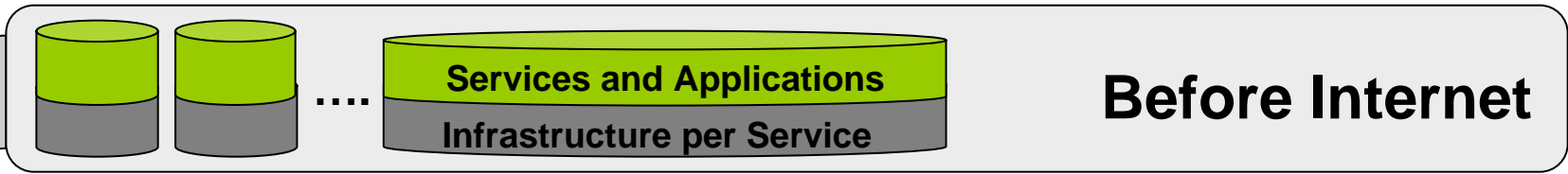
- Panelist site
- Partner sites

This complex block contains several elements: a satellite icon at the top; a video conference room showing a speaker and participants; a map of Indonesia with a red circle highlighting a 'Damaged Area by Tsunami' and several partner sites (AIIT, ITB, UNIBRAW) marked with red dots; and a legend for 'Panelist site' (red dot) and 'Partner sites' (green dot). The text 'Multicast' is written in blue above the video conference room. Logos for Tohoku Univ, Keio, and DVTS (35Mbps) are listed to the right of the video conference room.



Digital Communication Media





The 'real' infrastructure for Knowledge and Information

KAME, SHISA, USAGI Project
IPv6 Reference Implementation
on BSD, Linux



DVTS Project
Audio/Video over IP



Lambda
High Speed Network



ICAR Project
Connecting CAR
to the Internet

IPv6

All Project
Internet over Broadcast Media
Connects 20 univ. in 20 countries

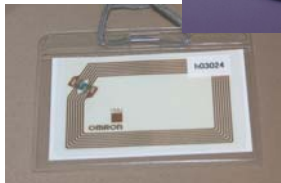
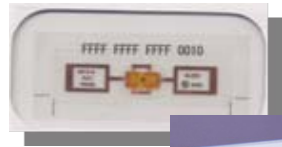


Internet



RF-ID
Education

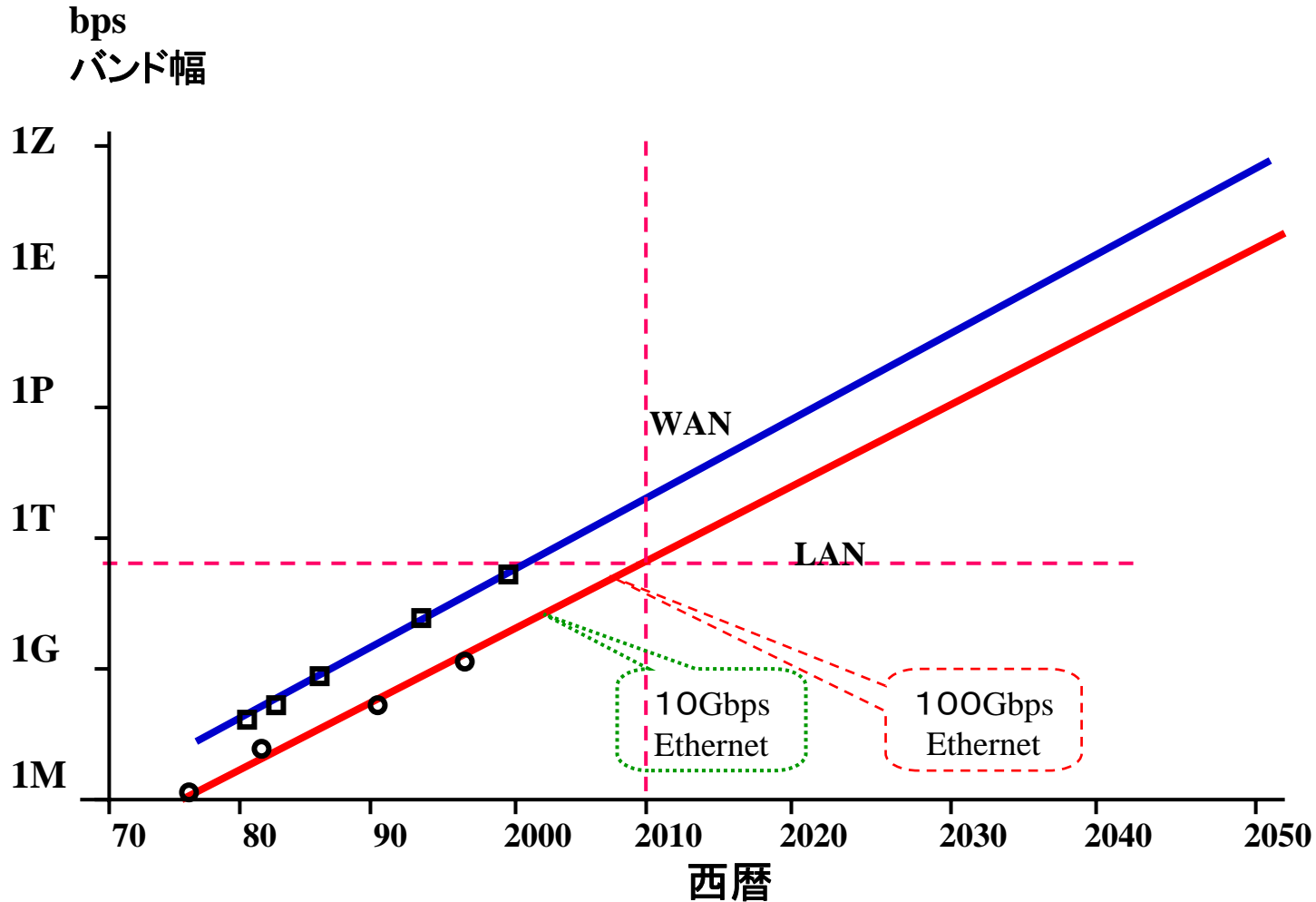
SOI Project
School on Internet
Global sharing of education



AutoID Project
Creating firm links between
Cyberspace and Realspace

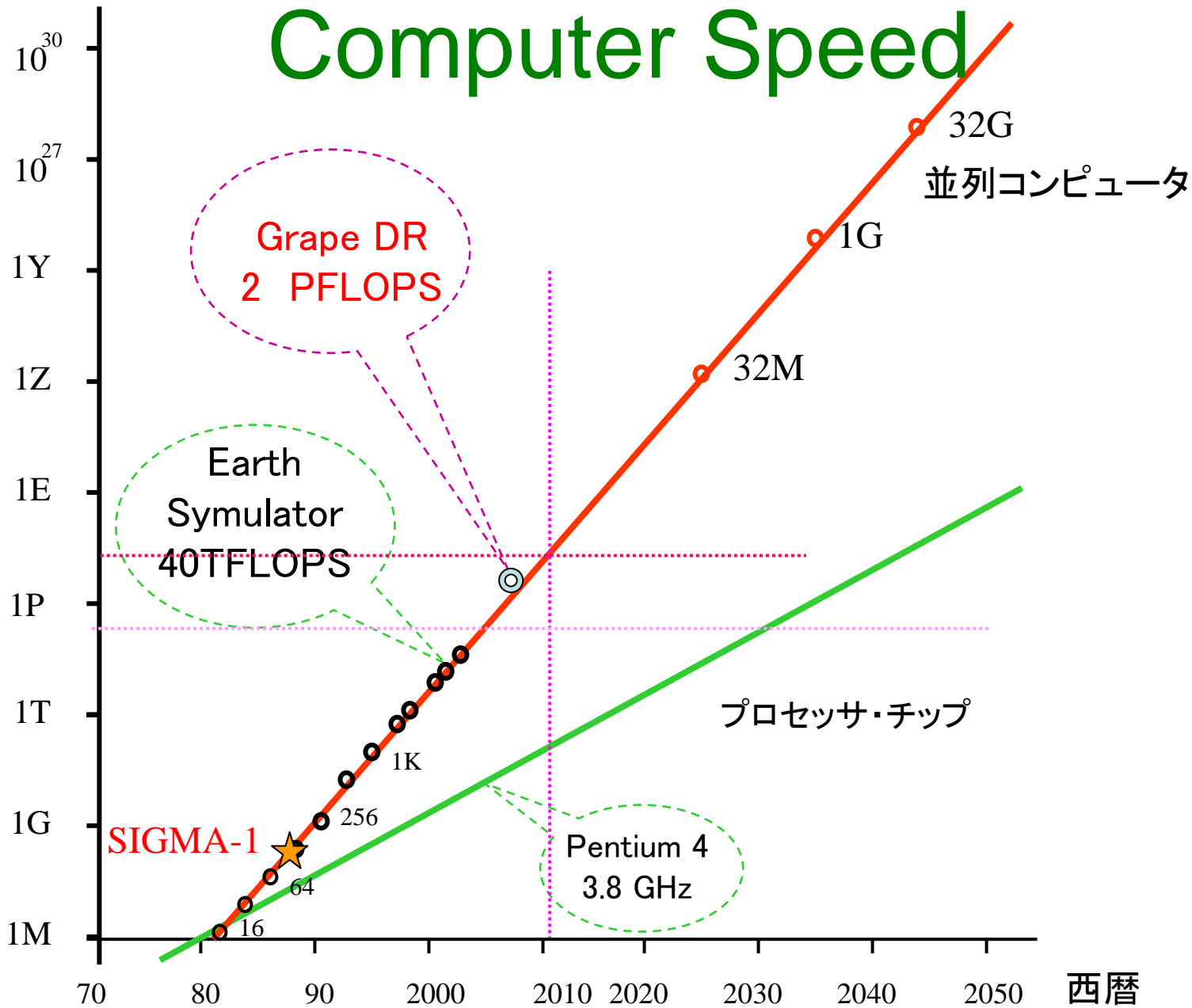


Network Speed



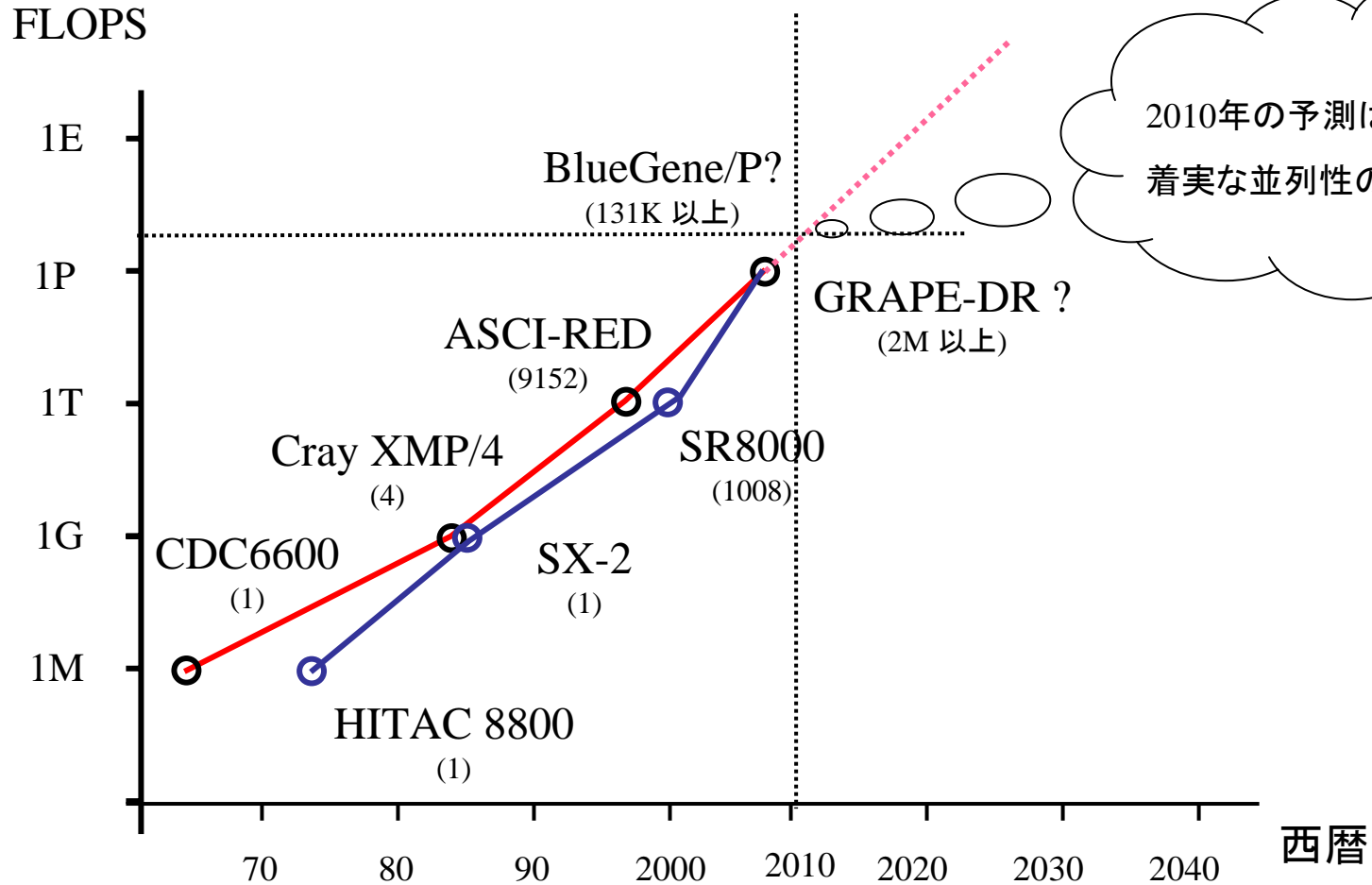
FLOPS

Computer Speed



西暦

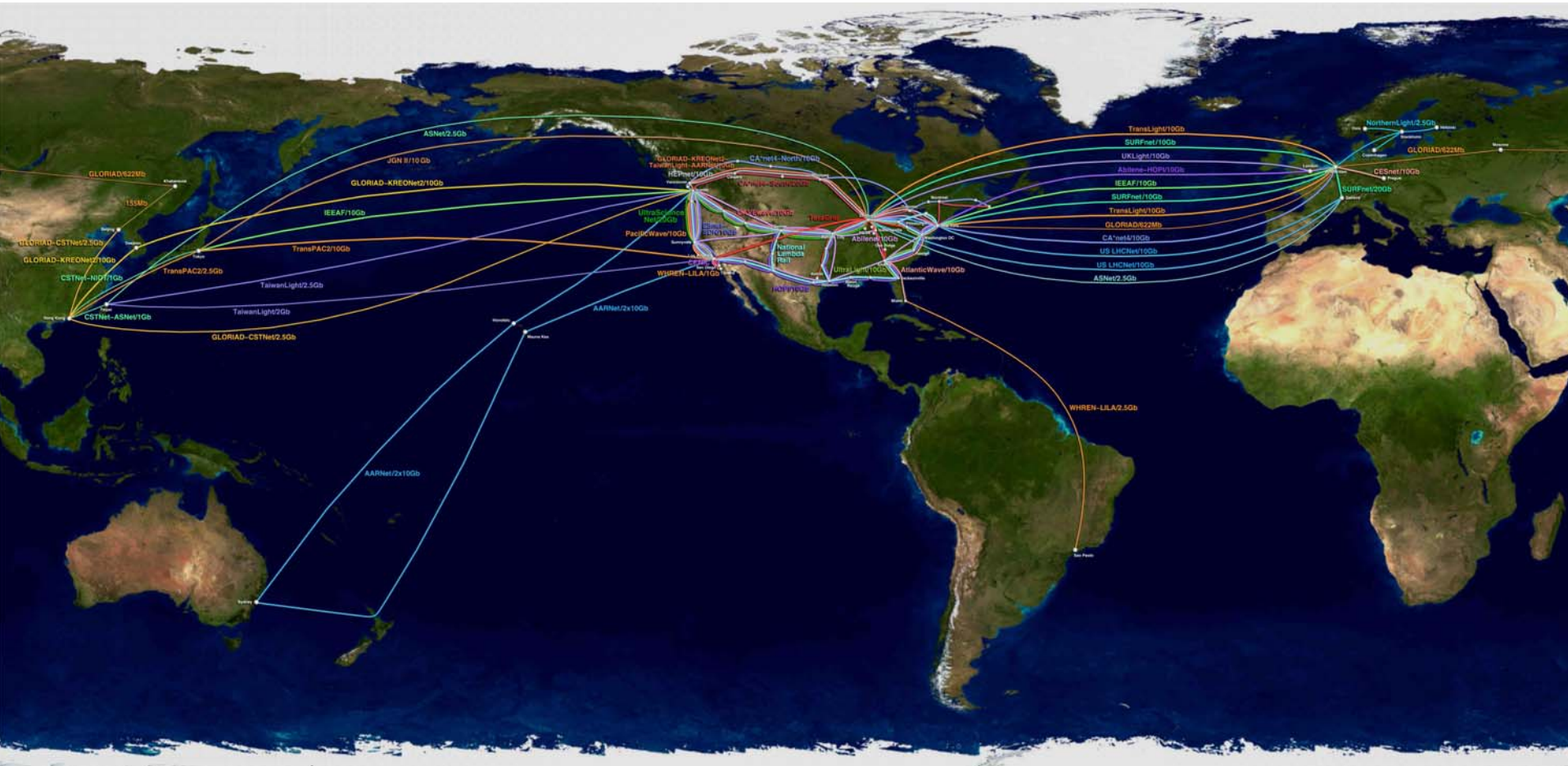
History of Speed breakthrough



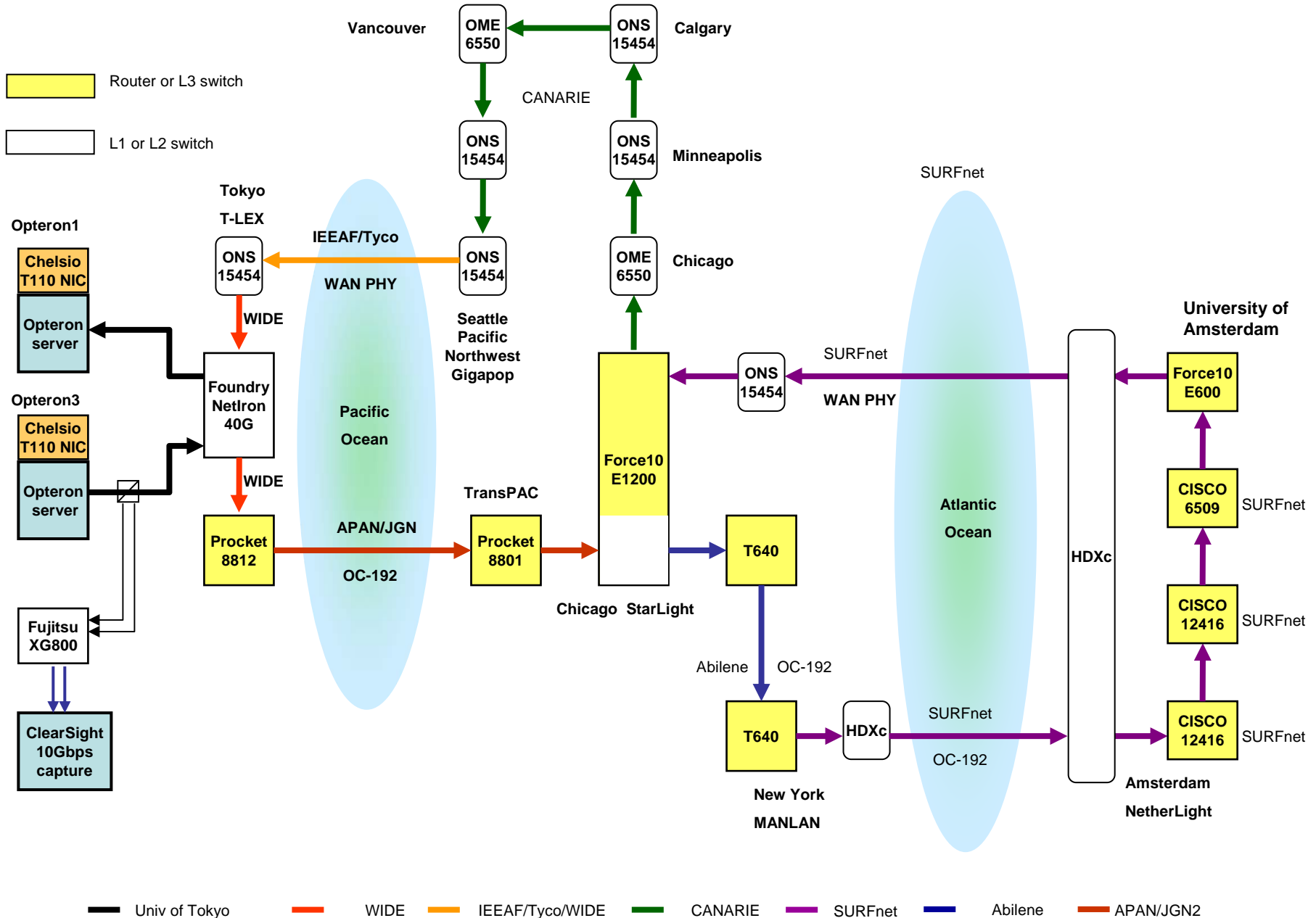
Global Lambda Integrated Facility

World Map – August 2005

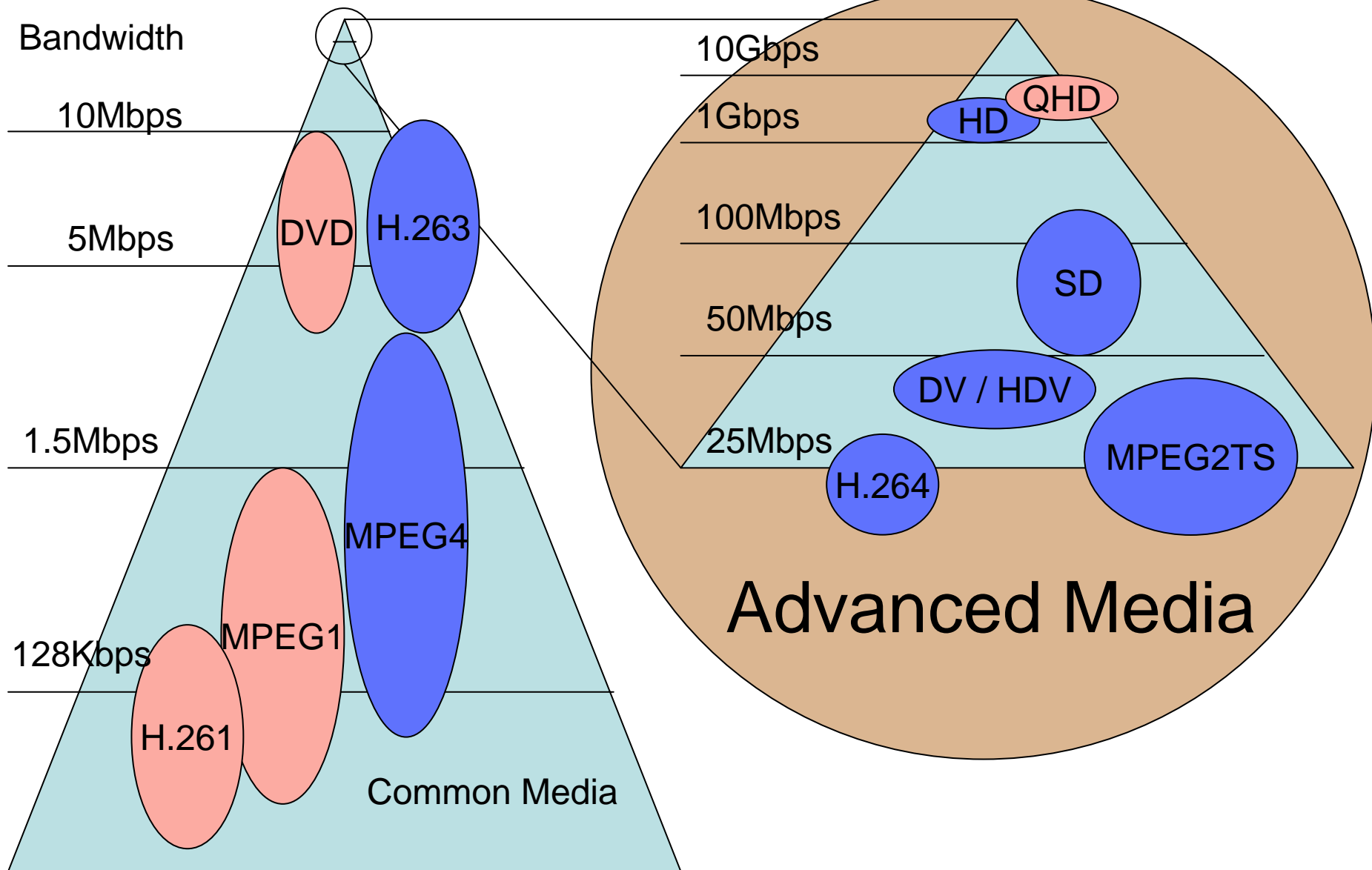
International Research & Education Network bandwidth, to be made available for scheduled application and middleware research experiments by August 2005.



Single stream TCP – Tokyo – Chicago – Amsterdam – NY – Chicago - Tokyo

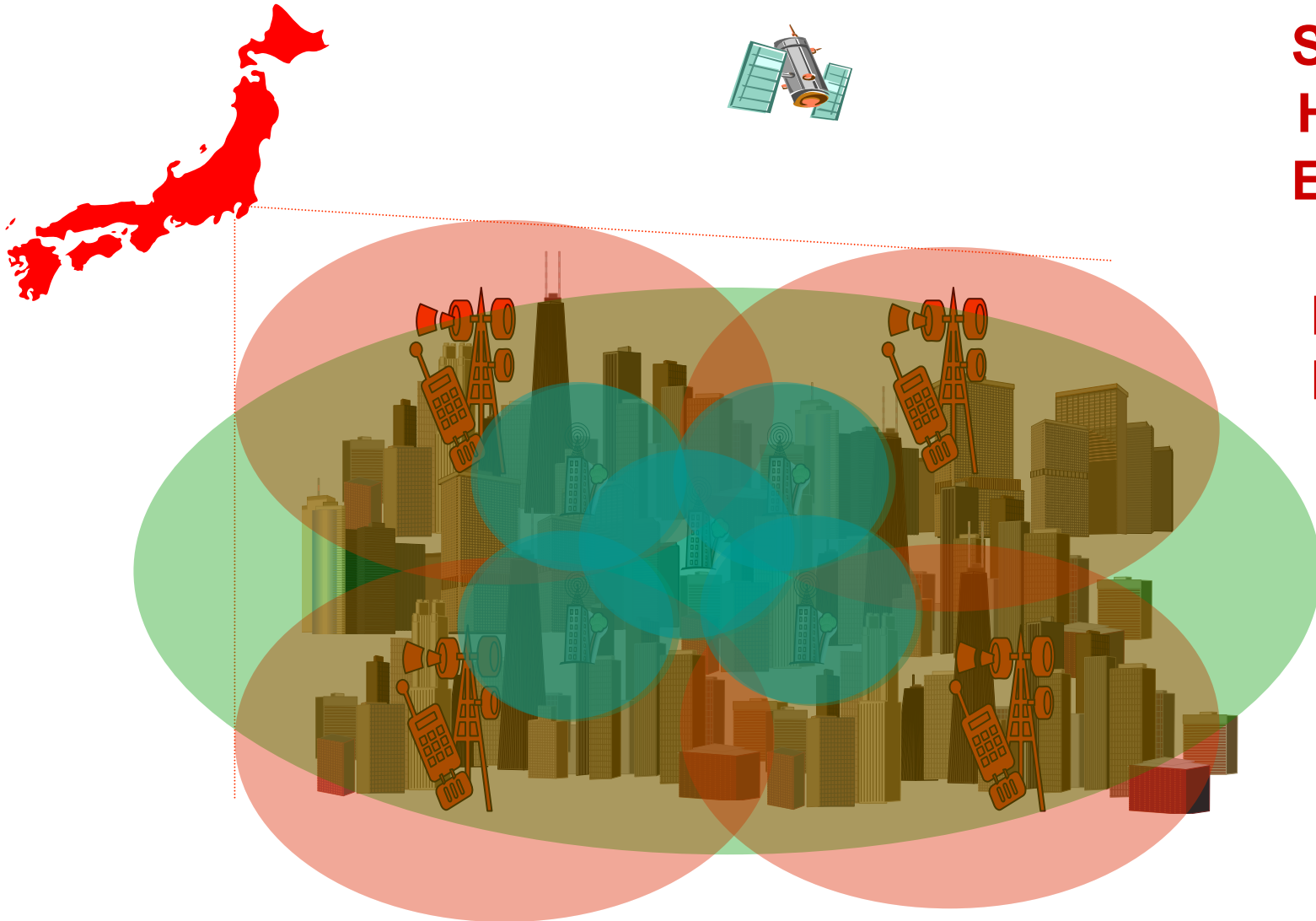


Structured Media Design



Unwired Mess?

WiMAX
WLAN
Satellite
HSDPA
EvDo 1x
PHS
DSRC
RFID



技術の標準化

デジュール・スタンダード
De Jure Standard
国家標準

デファクト・スタンダード
De Facto Standard
市場標準

国内組織

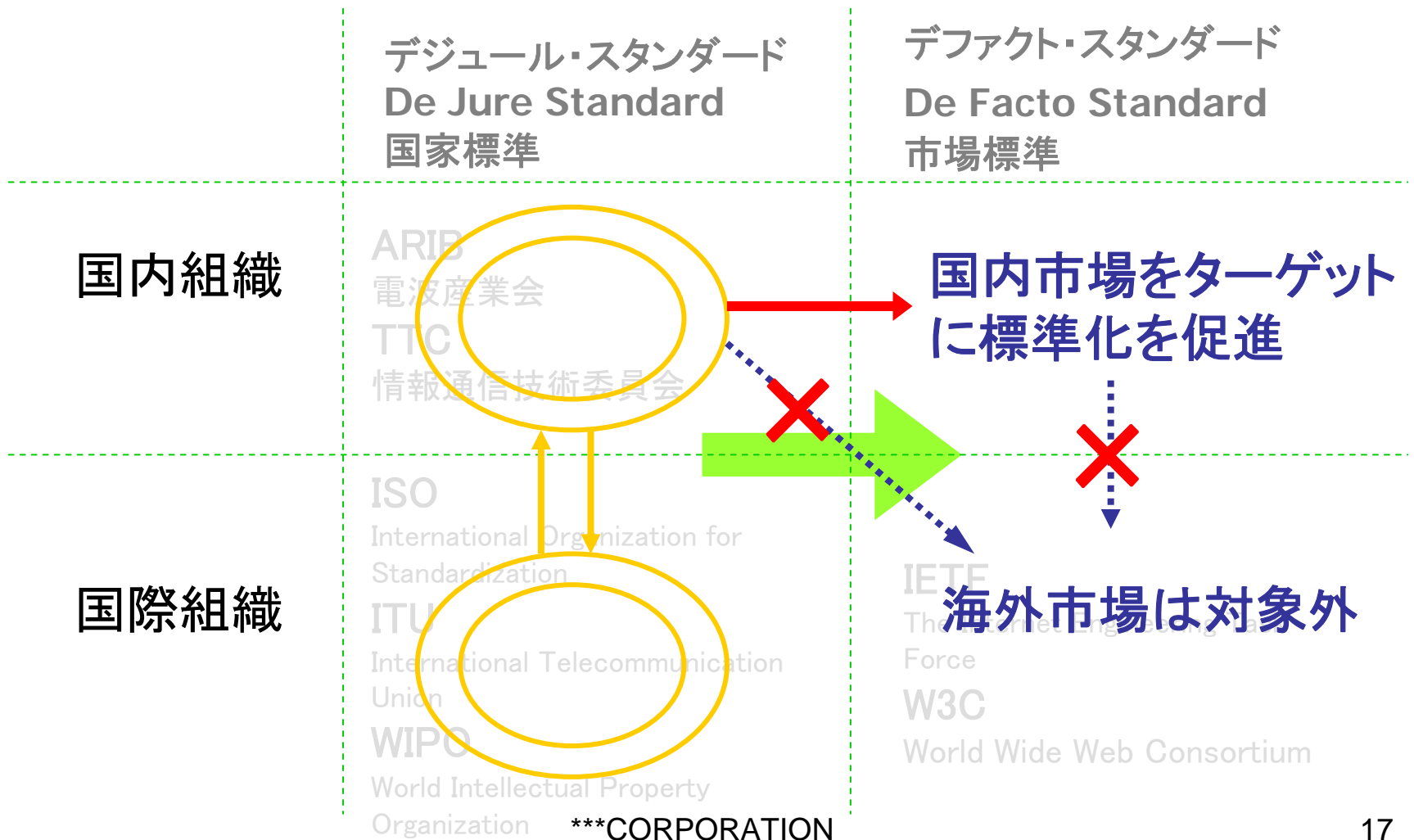
ARIB
電波産業会
TTC
情報通信技術委員会 等

国際組織

ISO
International Organization for
Standardization
ITU
International Telecommunication
Union
WIPO
World Intellectual Property
Organization ***CORPORATION 等

IETF
The Internet Engineering Task Force
W3C
World Wide Web Consortium 等

これまで



これから

デジュール・スタンダード
De Jure Standard
国家標準

デファクト・スタンダード
De Facto Standard
市場標準

国内組織

ARIB
電波産業会
TTC
情報通信技術委員会

国内市場のニーズから、国内/国際標準化が生まれる

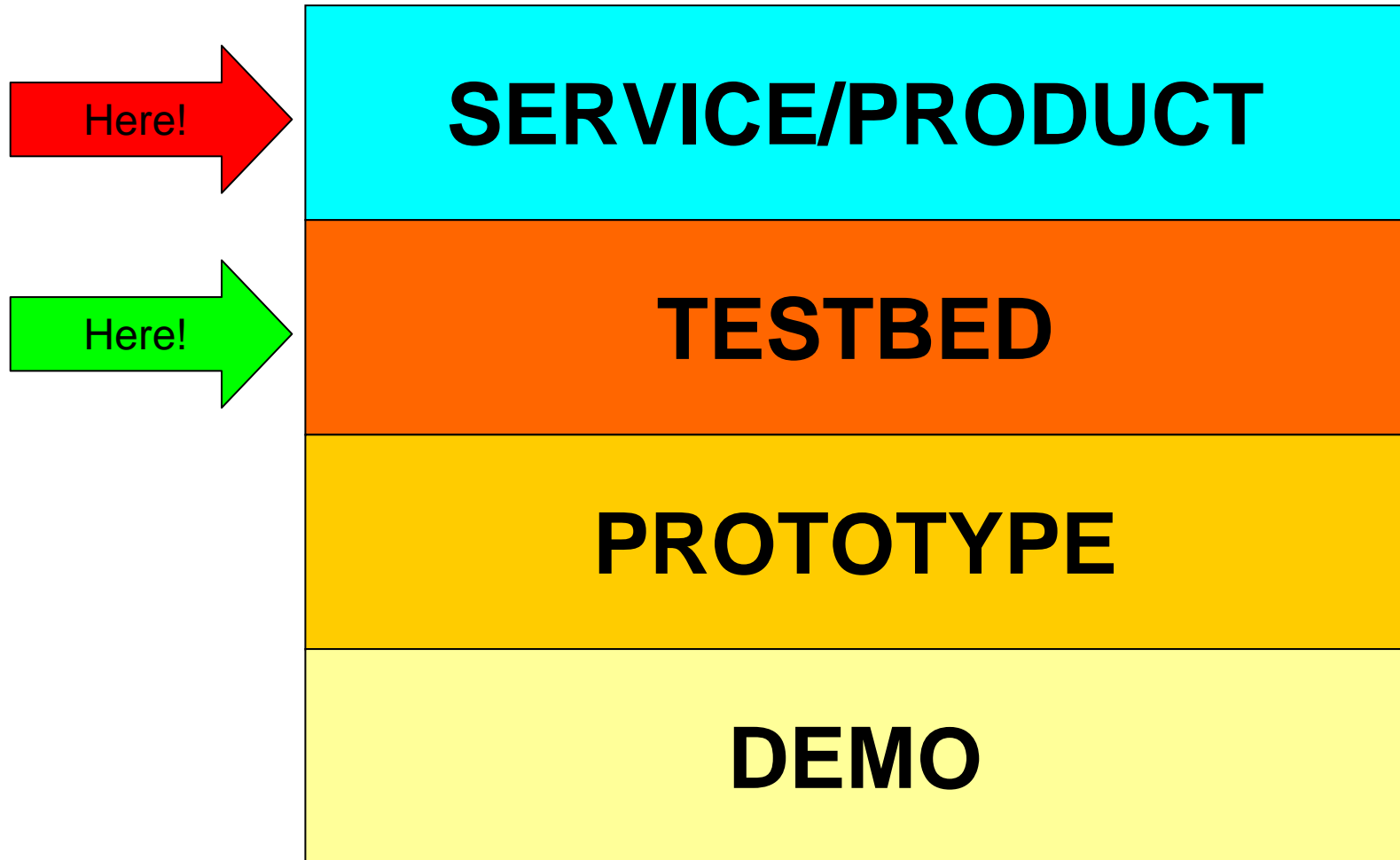
国際組織

ISO
International Organization for
Standardization
ITU
International Telecommunication
Union
WIPO
World Intellectual Property
Organization

IETF
The Internet Engineering Task
W3C
World Wide Web Consortium

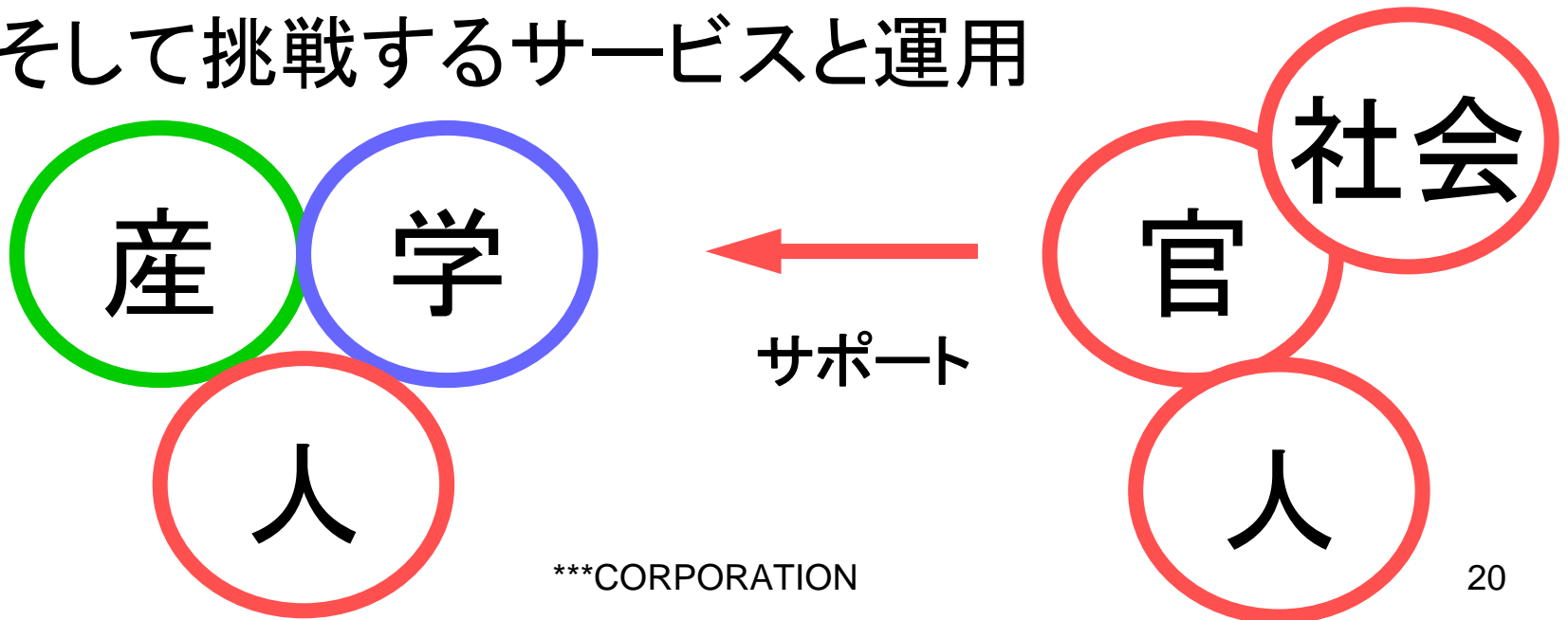
***CORPORATION

Operation is the King



挑戦するサービスと運用

- サービスのイノベーションは単独で完結しない
- 民主導 ≠ 民まかせ
- 戦略的研究テストベッド及び人材育成
- そして挑戦するサービスと運用



次世代のインターネット

イノベーションは日本から