

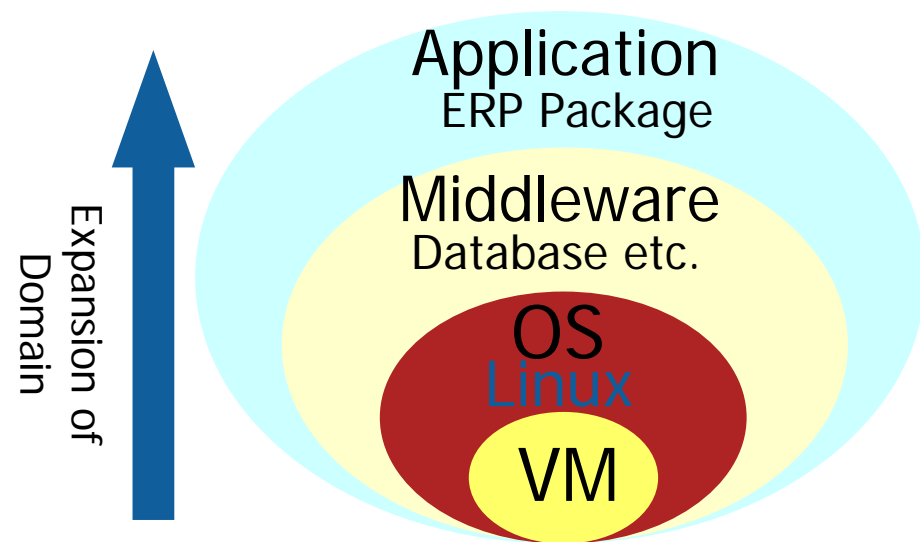
# Further Deployment of OSS

**Yasushi Ishida**  
**Executive Architect**  
**Fujitsu Limited**  
**September 13th, 2007**

- Integration of Business Management and IT

- Software Business Model: Product & Service

- Penetration of OSS



## OSS as means to DRIVE:

- (1) Technology Deployment
- (2) Openness (Linux)
- (3) ASP Service
- (4) New IT environment for Municipalities

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# (1) Technology Deployment

## Back Ground of OSS use

- Developing Internet Environment

## Case

- Kame Project: IPv6
- Naregi Project: Grid Computing

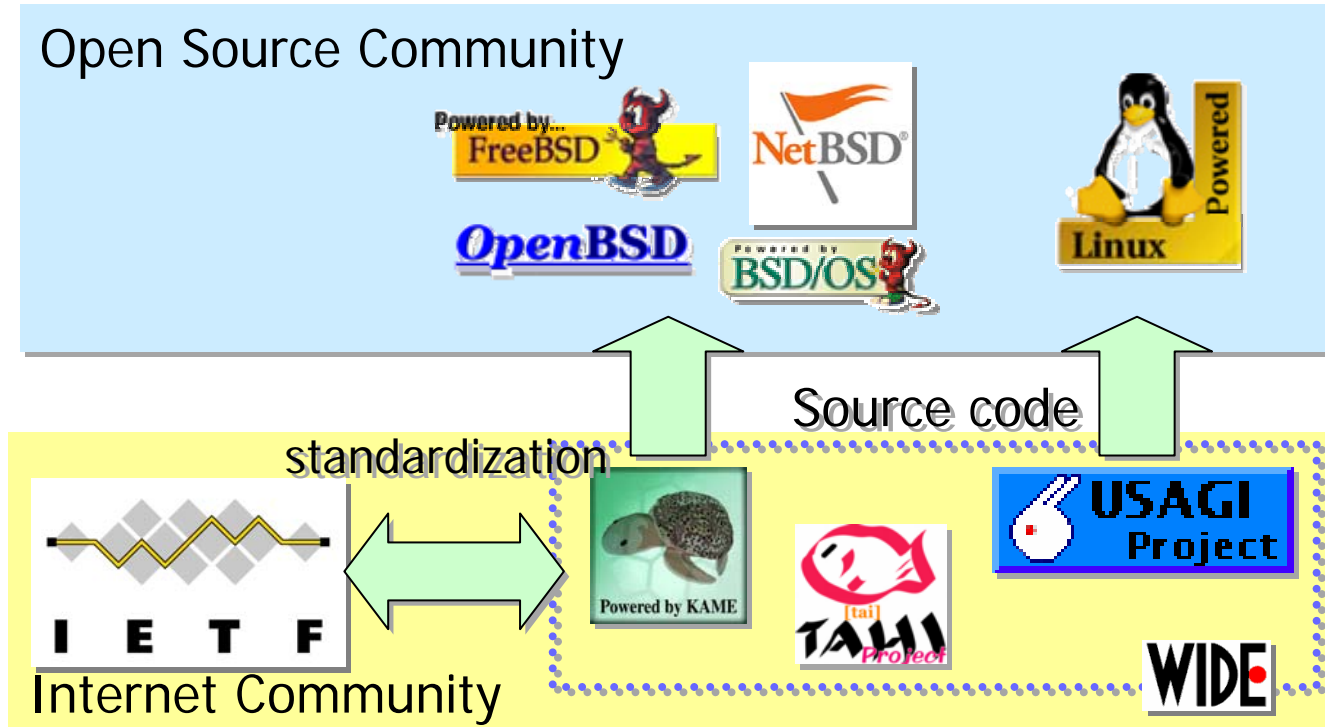
## Further Development

- SOA, Web2.0, . . . . .

# Case: Kame Project

KAME Project: Development of implementation code of IPv6  
Started from 1998  
Project Leader: Professor Jun Murai  
participating company: Alaxala, IJ, Toshiba, NEC, Hitachi, Fujitsu, YOKOGAWA

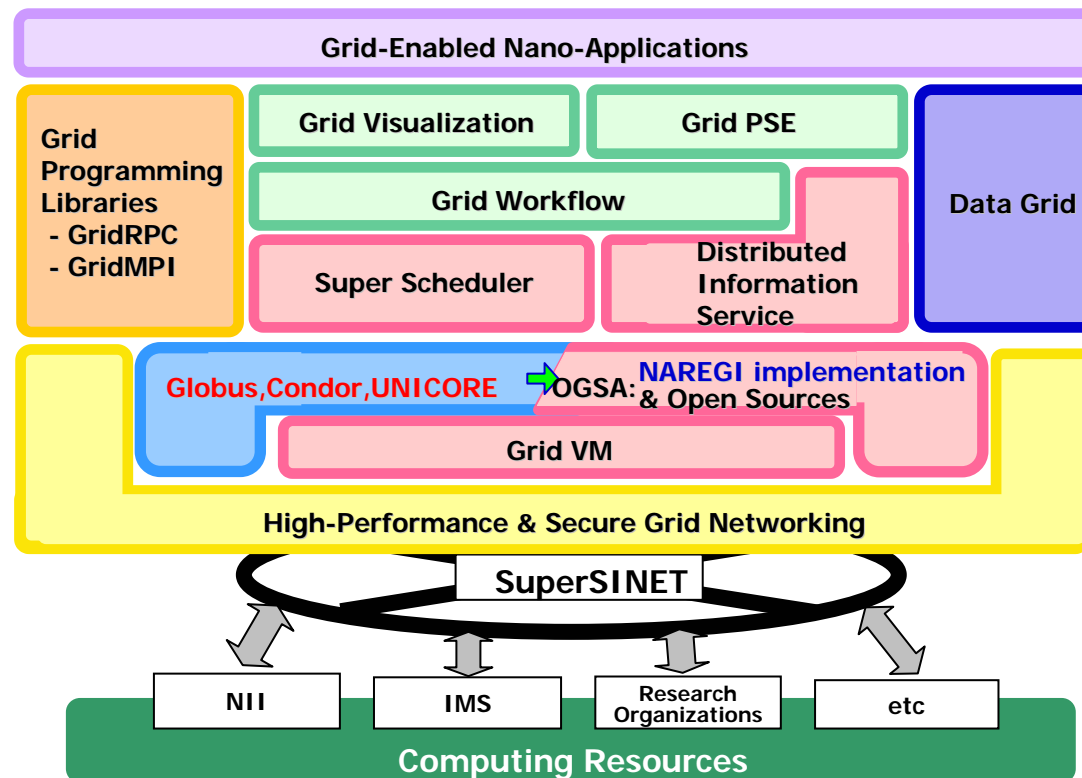
Back Ground of OSS use  
Deployment and standardization of IPv6



# Case: Naregi Project

NAREGI: National Research Grid Initiative in Japan  
Project Leader: Professor Kenichi Miura  
Funded by Japanese Government (MEXT) Started from April 2003

Back Ground of OSS use  
Deployment and standardization of Grid middleware



## (2) OPENESS (Linux): Fujitsu's activity



### Providing reliability, stability and flexibility

- Itanium Server PRIMEQUEST provides as high reliability and performance as a mainframe
- Partnership with Intel, Red Hat and Novell (functional enhancement and support framework construction)
- 99% or more of the incidents are solved by Fujitsu itself

### User's case

|              |                                    |                    |                              |
|--------------|------------------------------------|--------------------|------------------------------|
| ■ Bank       | Mission Critical system            | ■ Service Provider | ASP service platform         |
| ■ Hospital   | Medical informatics system         | ■ City hall        | Resident information system  |
| ■ University | Science and technology calculation | ■ University       | High Performance File System |

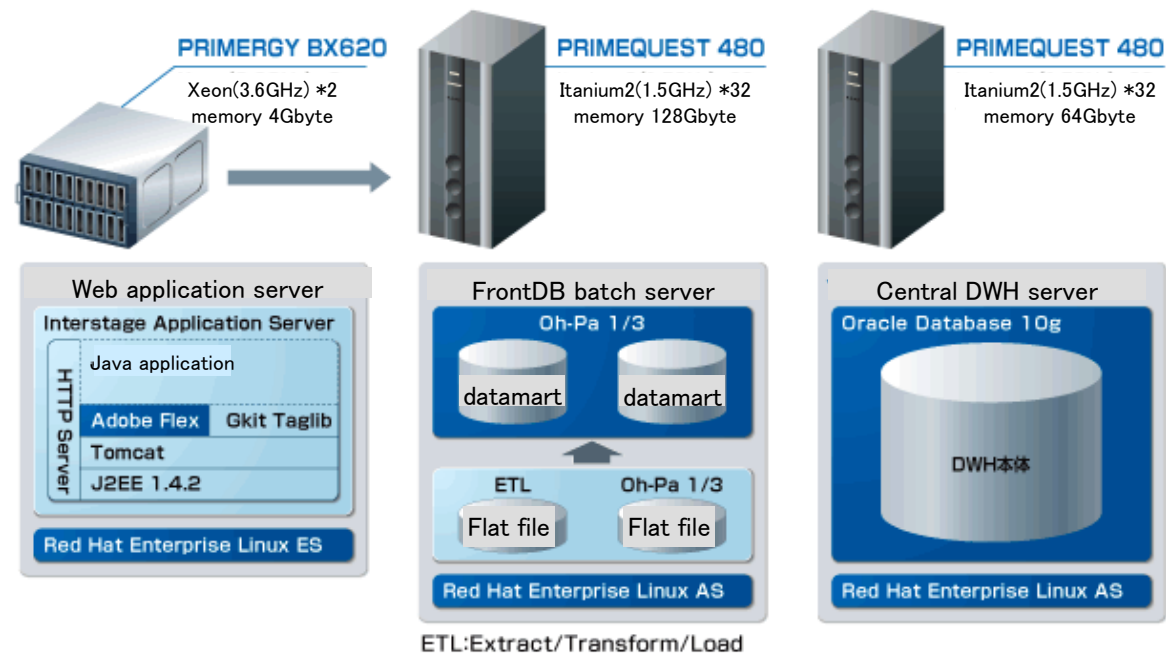
### Further Development

- Enhancement VM (Xen) for flexibility and security
- Secure Platform Project by METI

# Case: Circle K Sunkus (convenience store)



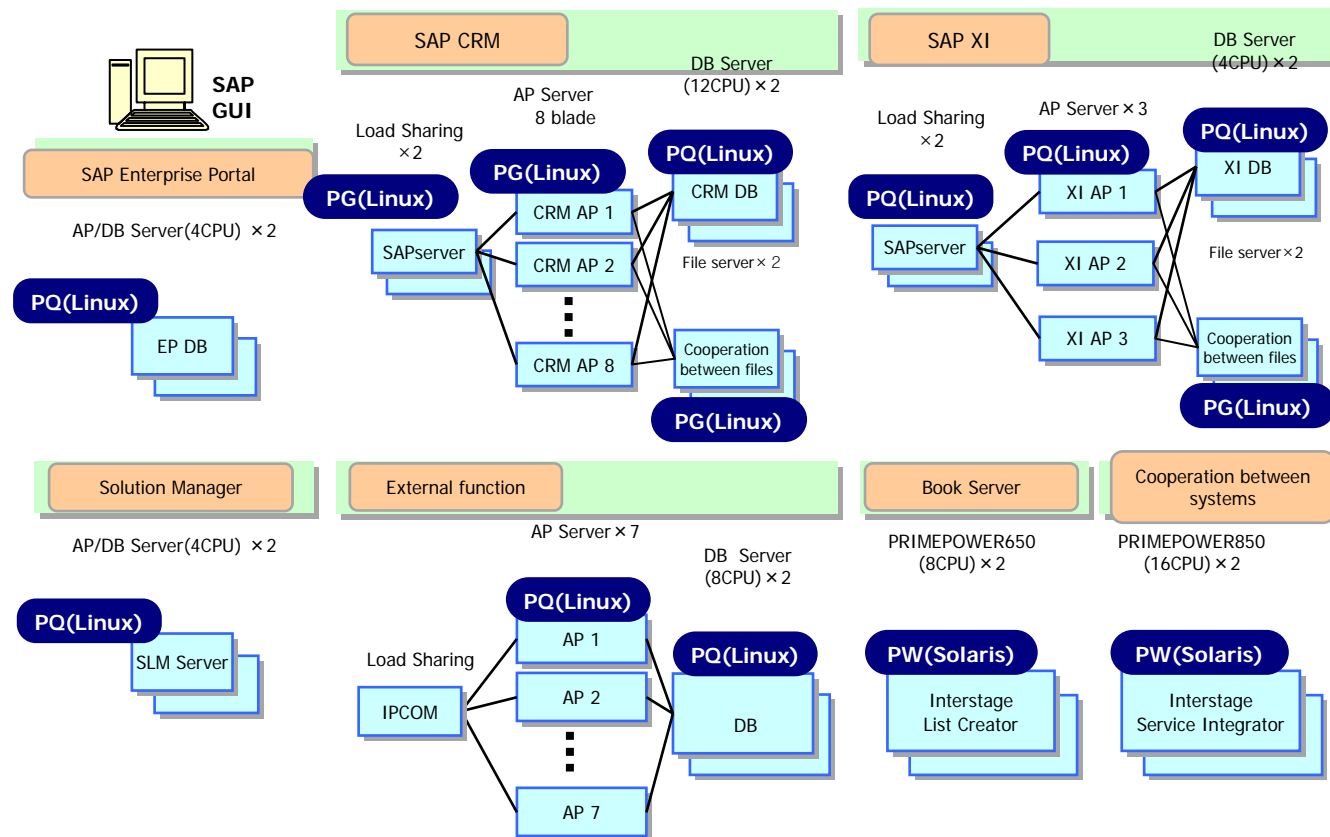
- Speeding up a large-scale batch processing  
Transaction data: 10 million or more, (daily)  
Total data size: about 1~2 G bytes (daily)
- Implementing On-memory DB that processes all data on memory
- Unification of DB/datamart composed of two or more servers





# Case: Next ordering system in Fujitsu

- Offering helpful information to achieve real-time management
- Adopting Linux as OS of SAP-CRM
- Promoting the business model of Fujitsu based on SOA
- Arranging and reorganizing complicated business system

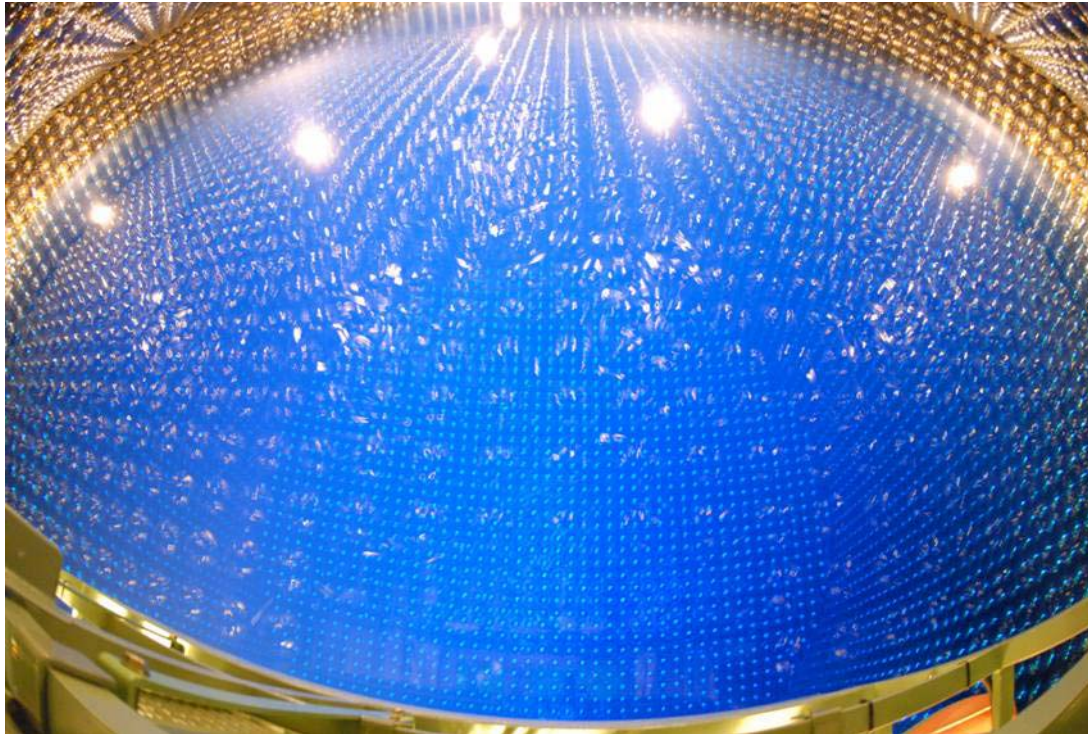


# Case: Super-Kamiokande



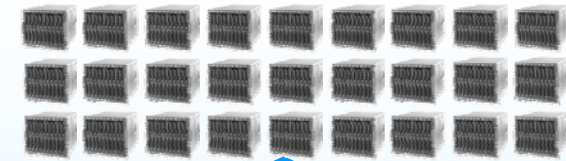
## Neutrino Research at Super-Kamiokande

Inside of SK-detector



Source: Kamioka Observatory,  
Institute for Cosmic Ray Research (ICRR), The University of Tokyo

**Analysis Node: PRIMERGY**



High-speed data transfer

**I/O Server: PRIMEQUEST**



**Storage System: ETERNUS**

- Observation of 24 hours and 365 days is supported by high reliability with All FJ products
- High-speed and analytical technology for vast amounts of data
- High-speed distributed file system: Parallelnavi SRFS

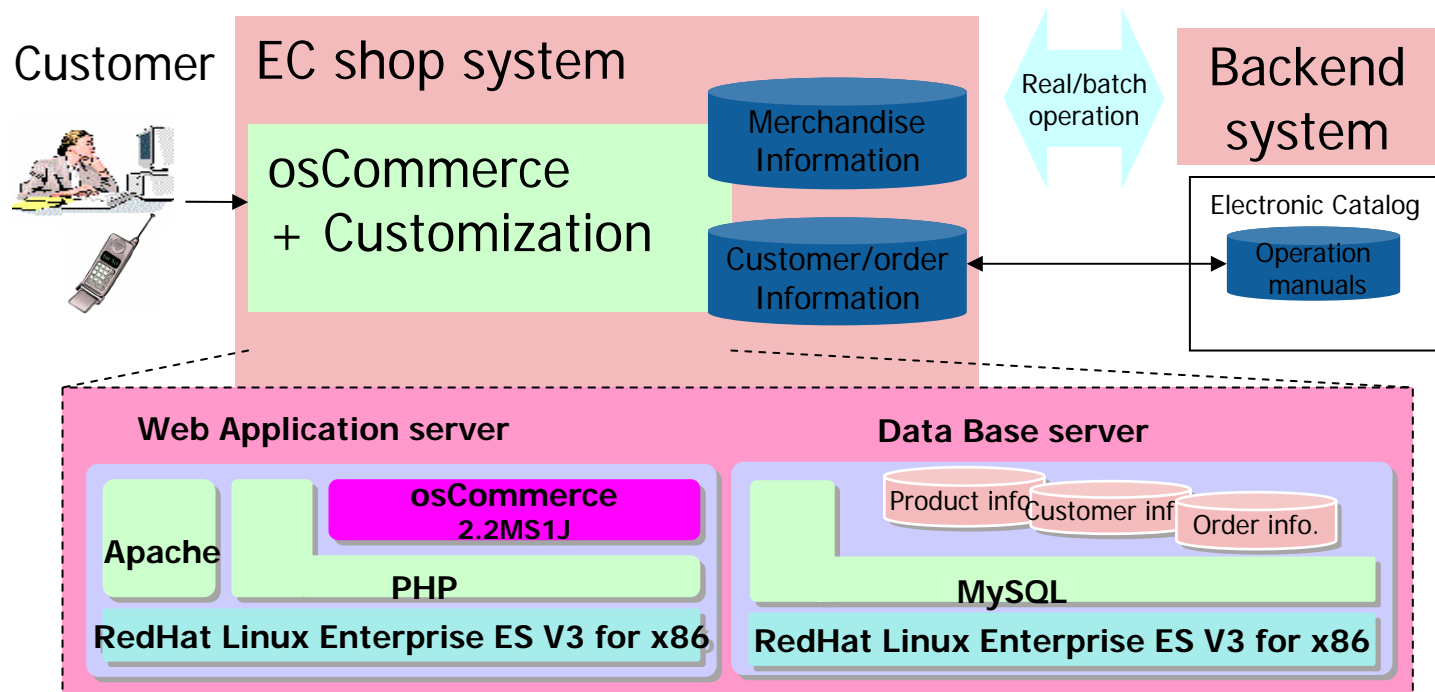
# (3) ASP Service: Fujitsu SSL's activity

## Back Ground of OSS use

- Reduction of support cost and strengthening of support framework

## Case: EC shop system (osCommerce)

- Constructing 90 small on-line EC shops with ASP service
- Integrating based on the system OSS "osCommerce"



# (4) Municipality

## Back Ground of OSS use

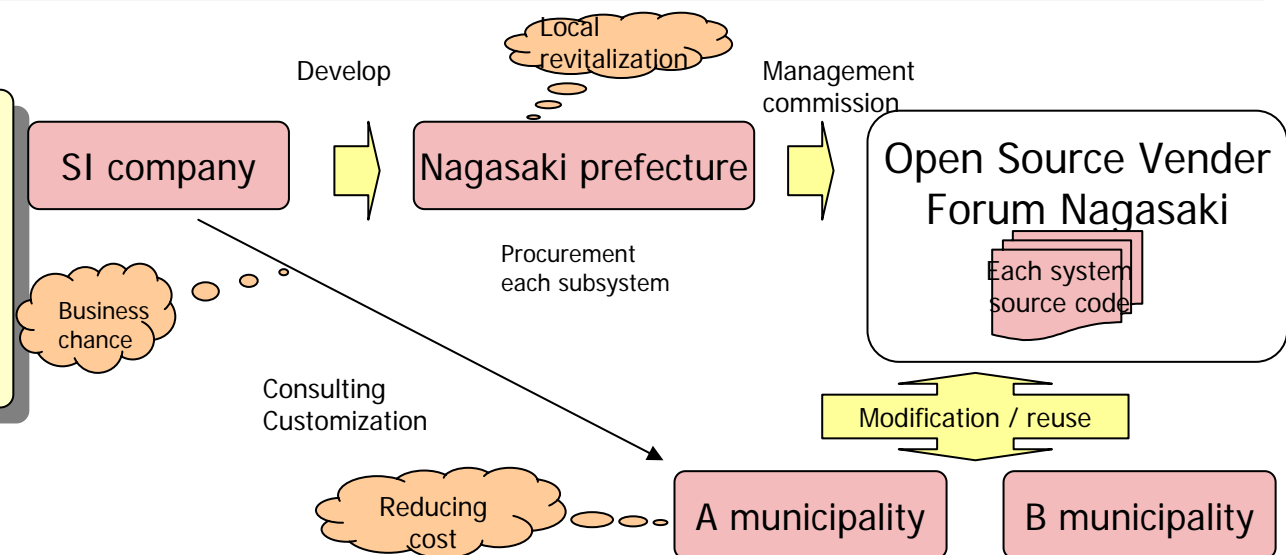
- Expanding business chances for small SI companies' business in local area
- Reducing cost in the municipality that reuses an OSS-based system

## Case: Nagasaki IT model

- SI companies in/outside Nagasaki prefecture develop a system with OSS
- Procurement by dividing businesses and the functions to each subsystem
- Municipality maintains the copyright, and opens source code to the public

## Further Development

- The case of Nagasaki can be replicated by other municipalities.

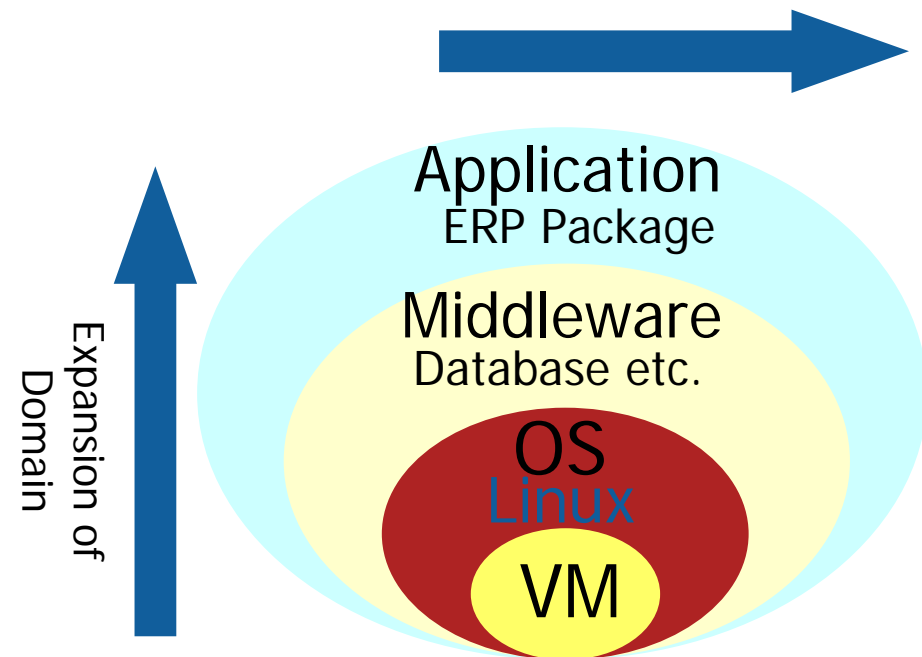


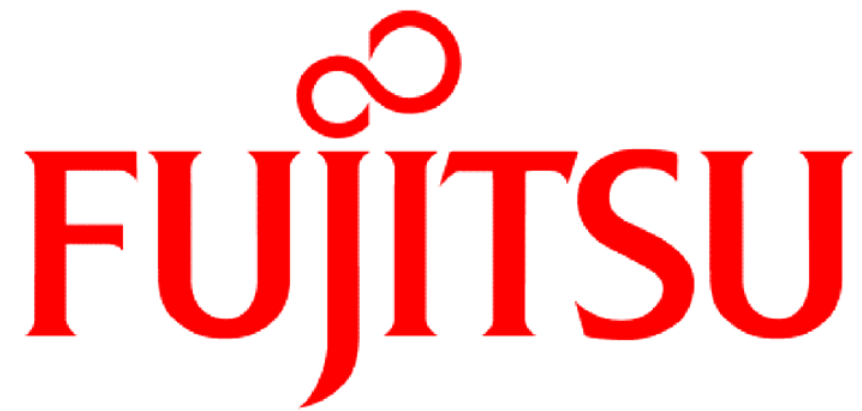
Source: Japan OSS promotion forum Server-WG ( 2006 activity ) "Open Source Software Business-model"

- End in opposed era of OSS and Non-OSS

- OSS and SaaS

- OSS expands further





**FUJITSU**

**THE POSSIBILITIES ARE INFINITE**