

# **Trial for OSS Desktop**

**14 April 2006**

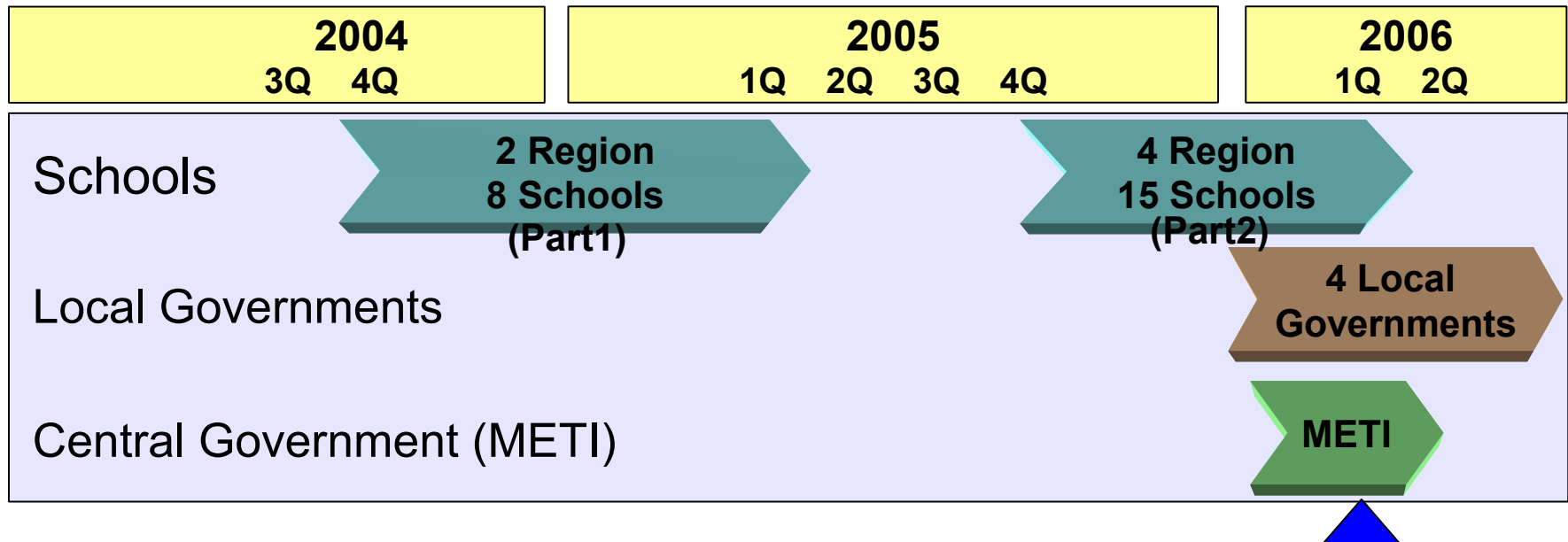
**Koichi Ikumi**

**NEC Corporation**



# Outline

- OSS server system has become widely used in Japan, but OSS desktop is still not popular.
- METI started OSS desktop trial programs from FY2004 at Schools, Local Governments, and Central Government (METI) itself.
- Promote to expand the recognition of OSS Desktop and develop various kind of reference model



# **OSS Desktop at Schools (Part1)**



# First Phase of large scale deployment of OSS desktops at school

- 300 Linux PCs are deployed at 8 schools in 2 regions
- 3,000 students used in 800 class hours
- From 2004/9 to 2005/3

## Gifu-CITY

- 2 elementary schools  
1 junior high school
- 110 Linux PCs
- 1,350 students
- 320 class hours

## Tsukuba-CITY

- 4 elementary schools  
1 junior high school
- 185 Linux PCs
- 1,900 students
- 500 class hours



# Objectives

- Is OSS Desktop feasible at Schools?
  - Many students use PC in classes of science, social, mathematics, language, etc.
- Improvement of functionality and usability of Desktop
  - Embedded movies in Web browser
    - Improvement of mplayer-plugin
  - Improvement of OSS desktop environment such as easy access of peripherals (floppy drive, printer, camera, ... )
  - Porting educational softwares to Linux
  - Eliminating dependency of educational contents on Internet Explorer
- How do we support teachers for using OSS desktop?
  - Helpdesk service
  - Classroom PC administration system



# Students Using OSS Desktops

Students use Linux PCs freely during break between classes as well as in classes

Making presentation materials by StarSuite



HW: IBM ThinkPad R51

HW: SOTEC PCStation

OS: Sun Java Desktop System

OS: Turbolinux 10D

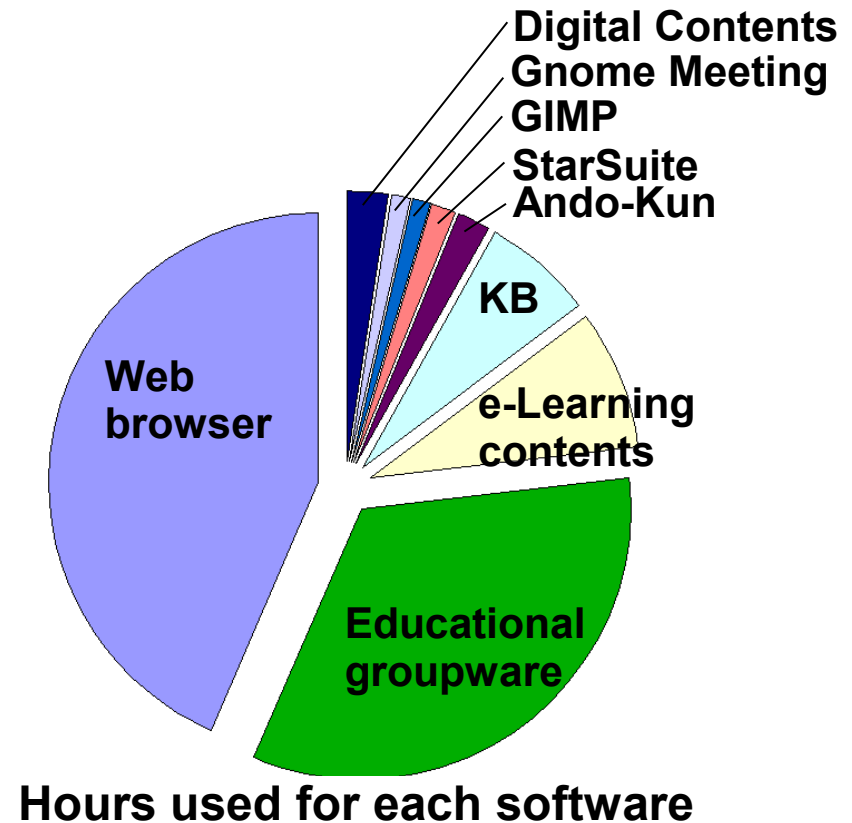
(= Linux 2.4 + GNOME) (=Linux 2.6 + KDE)

## Introduction lecture



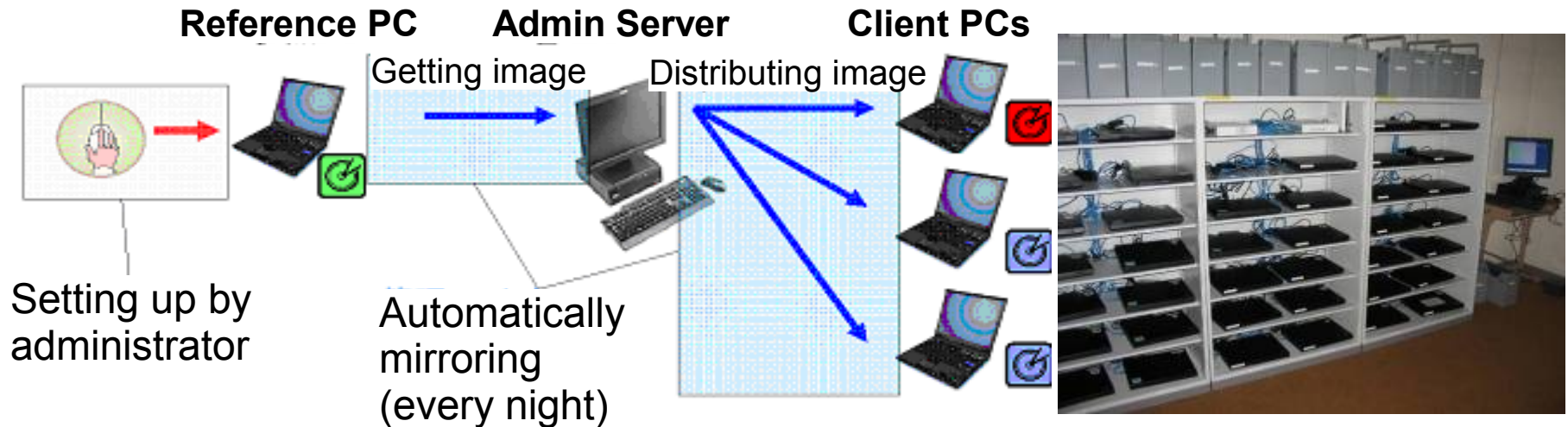
# Software Used in classes

- Web browser (Mozilla)
  - for information gathering
- Educational groupware
  - for documentation
- e-Learning contents
  - for self-learning
- StarSuite
  - for documentation
- GnomeMeeting
  - for video conferencing
- GIMP, TuxPaint
  - for painting



# Classroom PC administration system

- Minimize PC administration work for teachers
  - Teachers are troubled by maintaining OSS Desktop environment changed by students
- Classroom PC administration system
  - Disk image of a reference PC is automatically copied onto all of client PCs at every night



# Result of trial of school

## ■ Desktop OSS at School is feasible

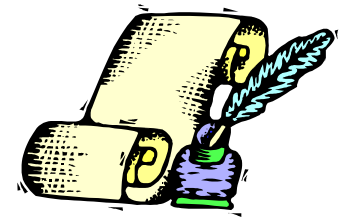
- Functionality and usability for students
- Low cost and availability is attractive for schools

## ■ Obstacles still remain for Desktop OSS

- Educational contents should be viewed at multi-platform
  - Reducing dependency on IE
  - Standardization of movie files
- Improve usability and start-up time
- Develop more educational applications

### Items to be improved:

- Easy access to **peripherals and removable medias**
- Incompatible **multimedia files**
- Interoperability of **office suite data** (PowerPoint and Impress)
- **Start-up time** (Students can't wait for 3 minutes)
- Usability of icons and menus
- More educational applications



# **OSS Desktop at Local Governments**



# Trial of OSS Desktop at Local Governments

- Period: From 2005/11 to 2006/7 **Ongoing**
- Sponsor: IPA (Information Promotion Agency)
- 4 regions

## SAPPORO-CITY

- 12 places in the city
- Experiment on calling IP between facilities on OSS desktop

## NINOMIYA-TOWN

### All business OA terminals of the entire town office

- Migrate from Windows Desktop to OSS Desktop
- Verify use of OSS desktop in the office work at the local governments

## TSUKUMI-CITY

- OSS desktop booted by way of the network is used.
- Use of this environment in the administration business has been verified.

- Back end business system is constructed with OSS.
- Interoperability with the Windows based system is verified.

## URASOE-CITY



# Introduction trial purpose of an OSS Desktop in Ninomiya-Town

- Verification of the possibility that can use an OSS desktop as a business terminal.
- Establishment of effective operation and management for an OSS desktop.
- Establishment of environmental migration method and data migration method from Windows to OSS desktop.
- Use of OSS by non-fixed form works.
- Verification of the effect that the education training gives user support.
- Verification of work efficiency and expense burden by adoption of OSS.



# OSS Desktop Environment at Local Governments



**HW: NEC PC98-NX Series Mate**  
**Intel Celeron 2.66GHz**  
**OS: Novell Linux Desktop 9 SP3**  
**(Linux 2.6 + GNOME)**

項番	課名	氏名	職制
1	4役 町長	藤田忠義	町長
2		プリンタ	PM-221
3	助役	齋藤孝	助役
4		プリンタ	BJS70
5	収入役	大間良勝	収入役
6	教育長	酒井照	教育長
7	総務企画課	山口健司	課長
8	庶務文書	豊田勲	係長
9		横田賢二	主事
10		窪見育代	主事
11		吉田優介	主事
12		枝直美	主事
13		安井智公	運転手兼係長
14		飯塚敦子	主事
15		プリンタ	AR-45
16		プリンタ	Ipsio NX
17		プリンタ	MP70
18		プリンタ	PIXUS8
19		VNC	FMVE6
20	事務推進室	機運准	室長

福祉保健課の皆様へ

福祉保健課用カラープリンタの故障に伴う代替え措置の提供について

新規導入を行ったLBP5900(カラープリンタ)が、2月25日(土曜日)故障しました。初期不良としてサービス側には早急な対応を依頼済みですが、緊急の代替え措置として別途印刷環境を提供いたします。ご不便をおかけしますが、以下の方法によりまして、印刷してください。

課長=====>保健衛生係の XL6200へ出力  
 社会福祉係====>高齢者福祉係 CX300へ出力(760Eがトナー不足で印刷不可)  
 保険衛生係====>保健衛生係の XL6200へ出力

各係に設置されたVNC(Windows端末)を起動しておいてください。  
 Linuxからの印刷を行う際は、プリンタ選択画面に表示される「vrps」(社会福祉係のみ「vrps2」)を選択し、印刷してください。  
 今回の措置は、印刷データをWindows用のデータに翻訳する手順が必要なため、印刷までに若干の時間が必要となります。  
 ※印刷まで異常に時間を要する場合は、お手数でも情報管理室までお知らせください。

## Introduction Environment

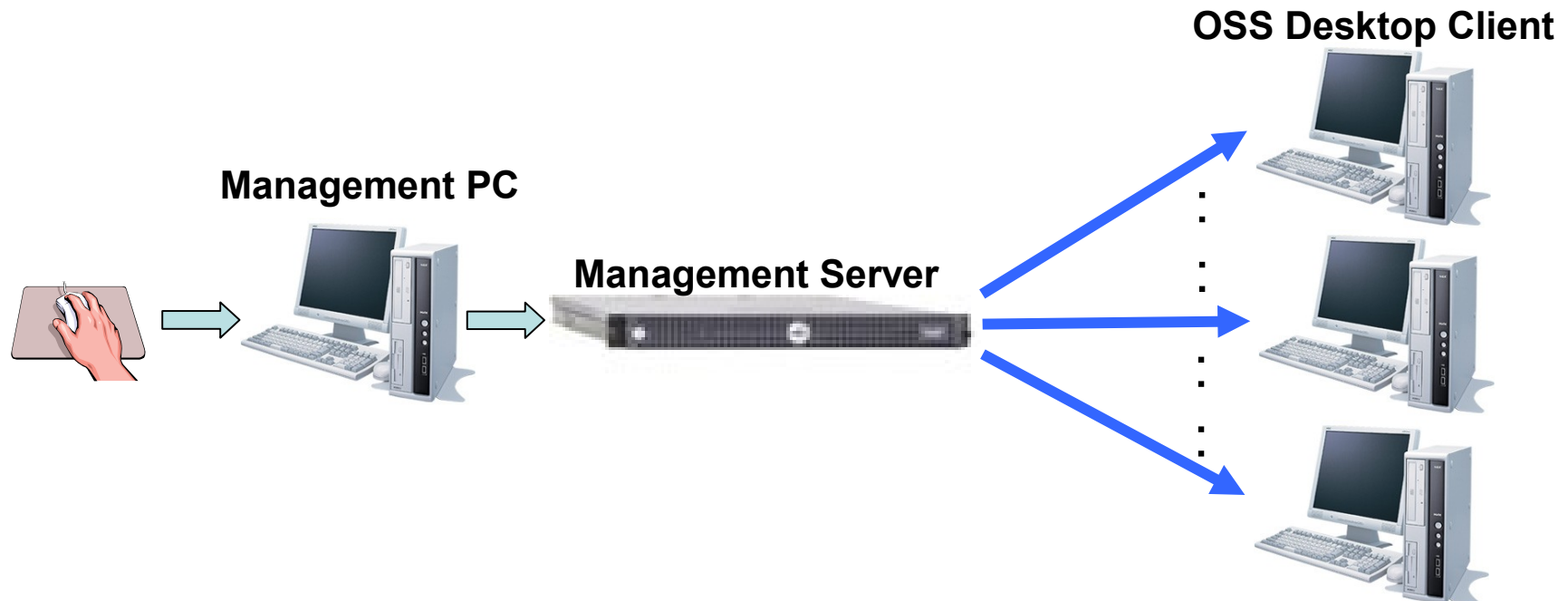
- Handling 139 PC for All Staff
- Multi Function Printer (Canon Image Runner iR-C2570F) \*1
- Color Laser Printer (Canon LBP5900) \*3



# OSS Desktop Environment Administration System

■ Aims at the load decrease of operation and the management work in the OSS Environment.

- Forcing transmission of patch
- Management of Desktop policy
- Disk restoration of image

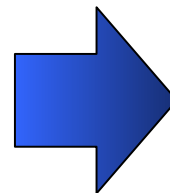


# Migration Path in OSS Desktop Environment of all Windows applications

Application and the activity ratio on Windows env.

Application on OSS Desktop env.

Application	Coefficient of use
Scheduler (Web Browser)	98.25%
Internet Explorer	96.49%
MS Word	96.49%
MS Excel	94.74%
Bulletin board (Web Browser)	92.98%
Mail Software (Becky!)	92.98%
Ichitaro (Word Processor)	31.58%
MS Access	17.54%
Others	14.04%



Application
Scheduler (Web Browser)
Firefox, Mozilla
OpenOffice.org Writer
OpenOffice.org Calc
Bulletin board (Web Browser)
Mozilla-Mail
Ichitaro (Word Processor)
OpenOffice.org Base
Others

\* Other's Application:  
 Adobe Photoshop, Cutpop2,  
 IBM Homepage-BUILDER, IP-Messenger,  
 MS PowerPoint, Adobe Illustrator  
 PageMaker

\* Other's Application:  
 GIMP, Mozilla Composer,  
 Gaim (Messenger),  
 Open Office.org Draw  
 Open Office.org Impress



# Study Scene of OSS Desktop

- Ninomiya-Town's staff audit the study of OpenOffice.org Writer by the lecturer.



# **OSS desktop at Central Government (METI)**



# **Introduction trial purpose of an OSS desktop at Central Government (METI)**

**\* This trial is part of the “IT Policy Packages” of e-Japan strategy in the government.**

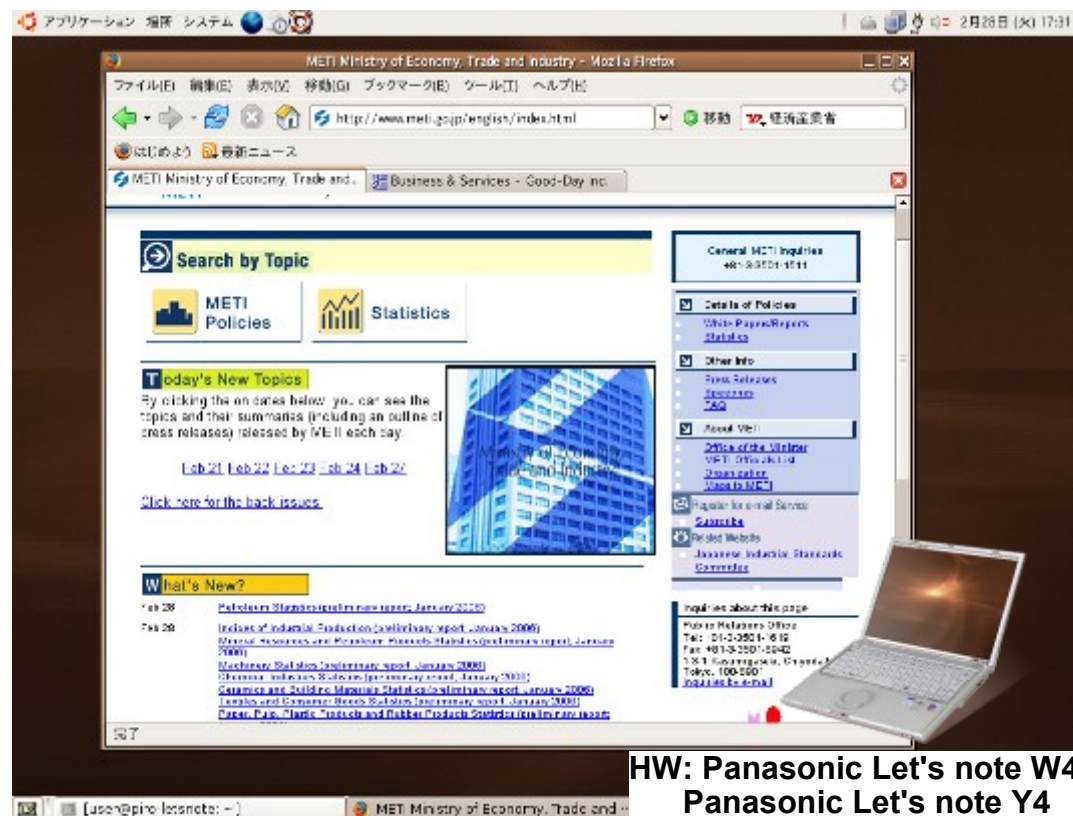
- **Establishment integrated operation and management for an OSS desktop in the central government.**
- **Verification of functions and minimum applications to usually use in a work (mail, file sharing, editing etc)**
- **Acceleration of discovering a technical problem.**
- **Extraction of a technical problem of OSS and enforcement of solution by improvement of source code.**



# Abstract OSS Desktop trial at Central Government (METI)

- **Period: 2006/03 to 2006/05** Ongoing
- **User counts : 30**

Features	Application
Web Browser	Mozilla Firefox 1.0.7
Word Processor	Ichitaro for Linux OpenOffice.org 1.9.129
Mailer	Sylpheed 2.1.6
File Sharing	Samba 3.0.14a
PDF Viewer	Evince 0.4.0 Adobe Reader 7.0.1
Input Method	ATOK for Linux SCIM-Anthy 0.7.0
Base Distribution	Ubuntu 5.10[Breezy Badger]



HW: Panasonic Let's note W4  
Panasonic Let's note Y4



# Conclusion

- OSS desktop trial had been started since 2004.
  - Leading by METI and IPA, Vendors are collaboratively work with  
For schools, the feasibility are verified  
For local and central government, it is ongoing to aggressive.
- Through these trials, we will continue to verify feasibility of usage for each area and enhance features with communities if not matured.



# Thank you

These slides are based on materials from MRI and Good-day.  
Thank a lot for their support

