FUTURE DEVELOPMENT OF DESKTOP LINUX
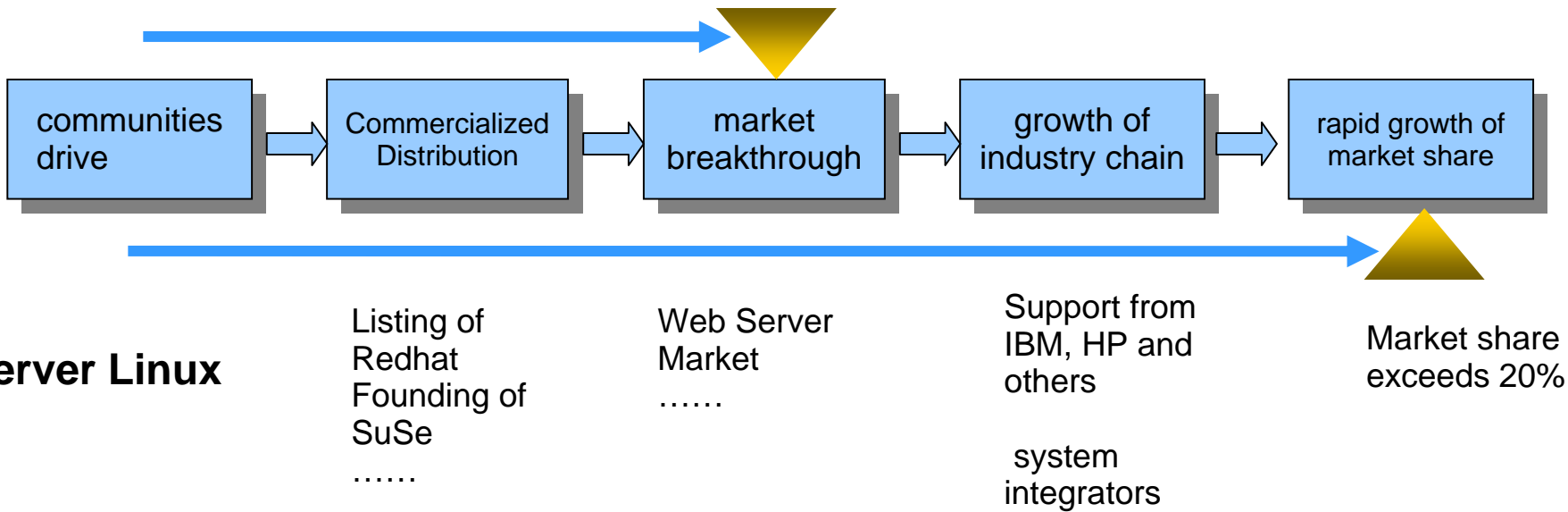
Liu Mingbao

SUNWAH LINUX
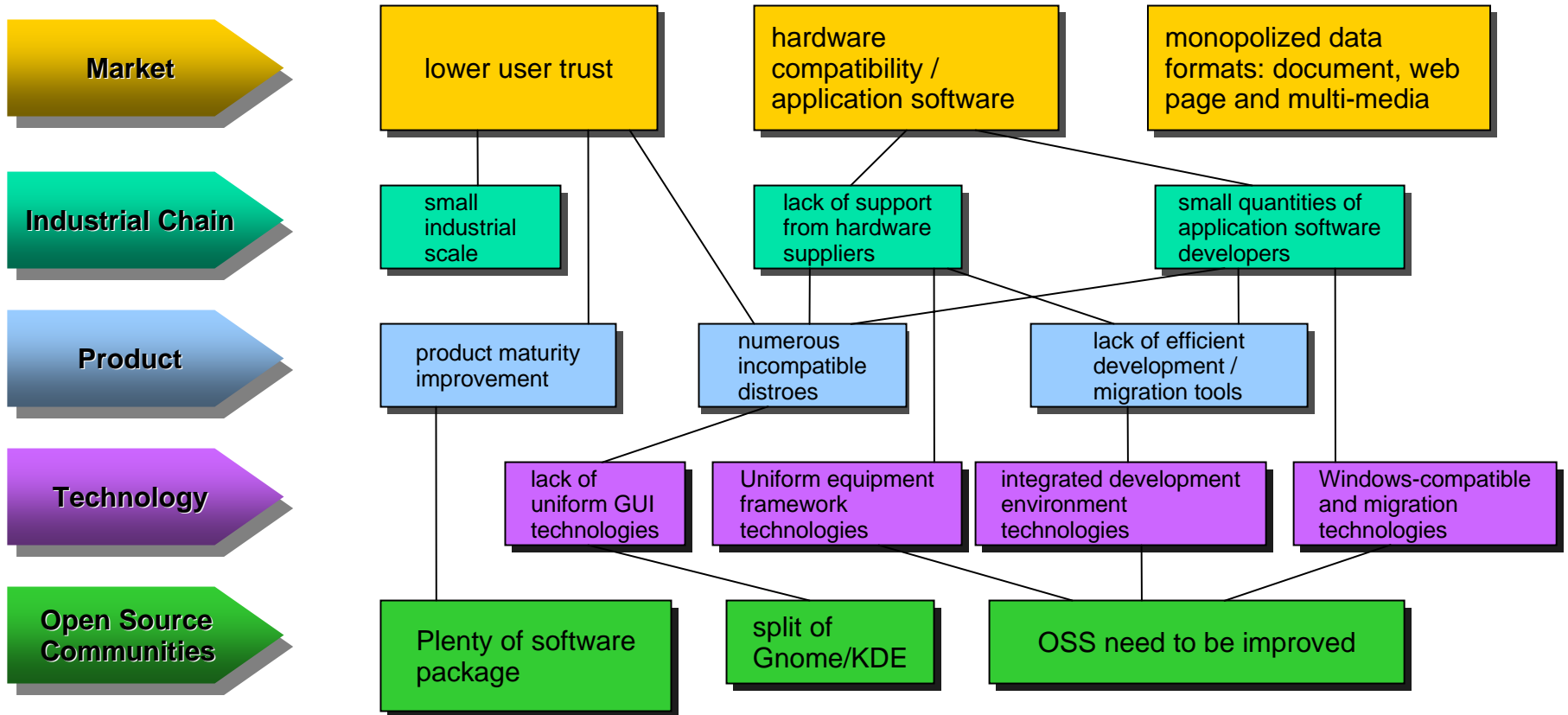
November 2006

Current Step of Desktop Linux

Desktop Linux

communities drive	→	Commercialized Distribution	→	market breakthrough	→	growth of industry chain	→	rapid growth of market share

Server Linux

Listing of Redhat Founding of SuSe ……

Web Server Market ……

Support from IBM, HP and others

 system integrators

Market share exceeds 20%

Challenges facing Desktop Linux

Market

lower user trust

hardware compatibility / application software

monopolized data formats: document, web page and multi-media

Industrial Chain

small industrial scale

lack of support from hardware suppliers

small quantities of application software developers

Product

product maturity improvement

numerous incompatible distroes

lack of efficient development / migration tools

Technology

lack of uniform GUI technologies

Uniform equipment framework technologies

integrated development environment technologies

Windows-compatible and migration technologies

Open Source Communities

Plenty of software package

split of Gnome/KDE

OSS need to be improved

Architecture of Desktop Linux
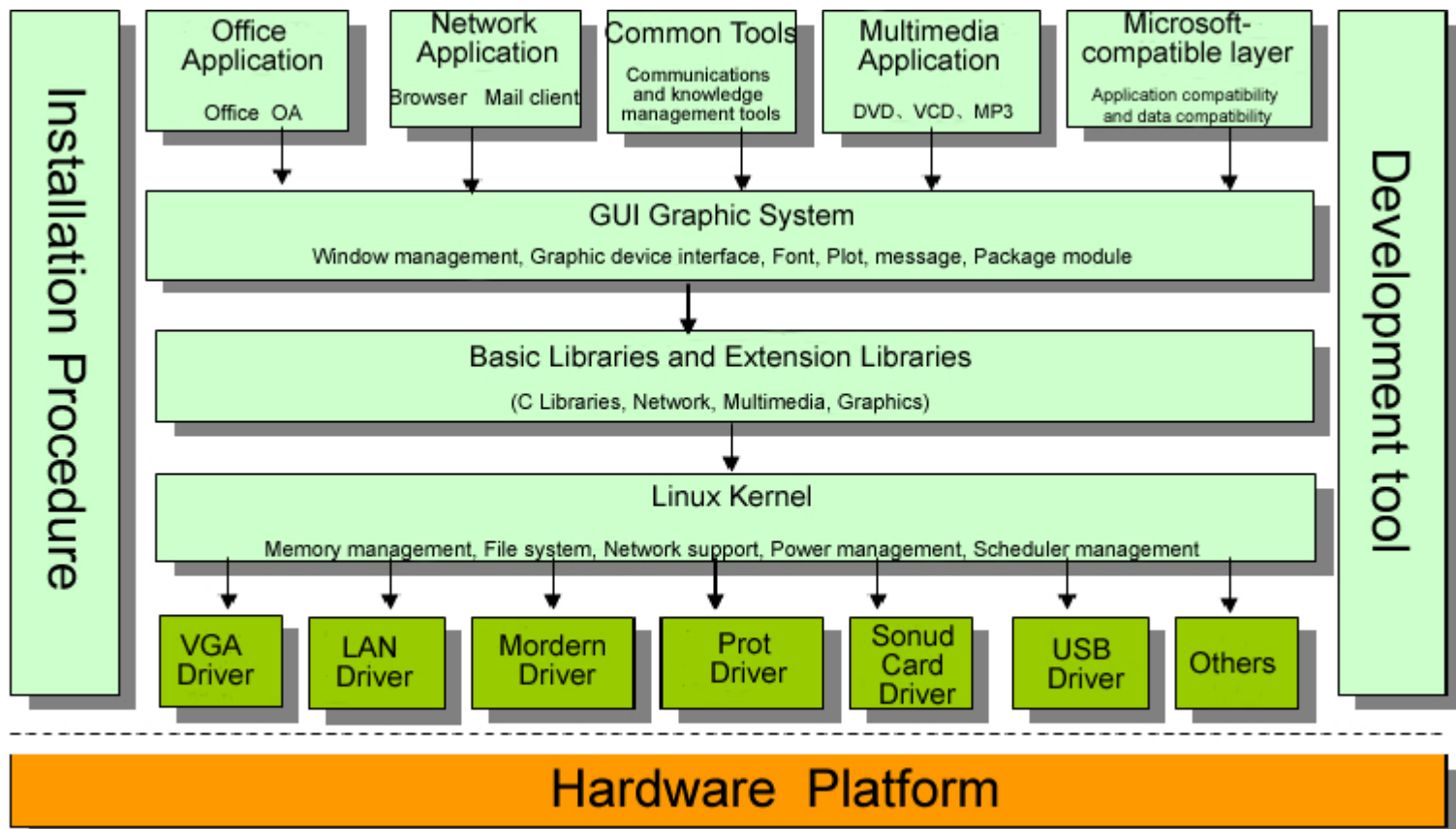
Primary Technical Challenges

lack of efficient migration tools make it difficult to migrate existing systems

Office Application
Office OA

Network Application
Browser Mail client

Common Tools
Communications and knowledge management tools

Multimedia Application
DVD、VCD、MP3

Microsoft-compatible layer
Application compatibility and data compatibility

Installation Procedure

Development tool

incompatibility between different distros
split of Gnome / Gtk and KDE / Qt

GUI Graphic System
Graphic device interface, Font, Plot message, Package module

Basic Libraries and Extension Libraries
(C Libraries, Network, Multimedia, Graphics)

Lack of device management framework makes it difficult for IHVs to provide drivers efficiently and conveniently

Linux Kernel
Network support, Power management, Sched

Lack of ISVs arises from lack of convenient and easy IDE development tools

VGA Driver

Modern Driver

Prot Driver

Sonud Card Driver

Hardware Platform

5

Classification of Desktop Linux challenges

Not common technology

C	**high-level problems: depends on distributions**
	• Print and Display Rendering Engine • User Interface • Labeling and Search • Security Framework • ……

- -

Common technology

A	**low-level technology: driven by OSS community**
	• Kernel • Graphic system (X11, KDE, Gnome) • Mozilla Browser • Others

B	**Low-level technology: just appeared and very important**
	• Portland Project • Uniform Device Management Framework • Integrated Development Environment • Migration Tools for Application System

About SUNWAH Group

SUNWAH GROUP is a diversified conglomerate with businesses in six principal areas - seafood and foodstuff, real estate, financial services, infrastructure, technology and media. Based in Hong Kong, the Group's activities span Mainland China, Macao, Vietnam, Myanmar, Cambodia, Singapore, Canada, Europe, USA and Australasia.

SUNWAH GROUP boasts a team of faithful and responsible employees, who have been contributing their great efforts to the Group's steady development. At present, the Group has more than 4,000 employees worldwide.

Corporate spirit: honest, united, pioneering, hardworking and prudent.

About SUNWAH Linux

- Founded in 2000

- 150 employees in Beijing, Nanjing, Hong Kong, Zhuhai and Guangzhou

- Member of FSG, OPENi18N and LPI, Supporter of Debian China and Gnome-cn

- One of the initiators of China OSS Promotion Union and one of the directors of Co-Create Software League

- In 2005, Jiangsu Education Department purchased 140,000 sets of Sun Wah Desktop Linux

- Awards:

  - IDG Linux World Product Excellence Awards, 2006

  - Best Linux Solution / Linux Magazine Editor Choice – Linux Pilot Magazine, 2005

  - Best Release Version of Desktop Linux and Best Innovative Solution of Desktop Linux – Open Source World, 2005

  ……

SUNWAH Linux Products and Services

- Desktop Linux: RAYS LX

- Server Linux: RAYS ES
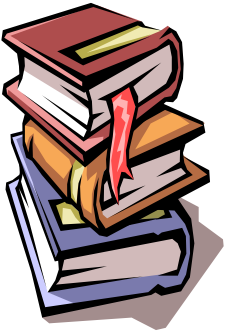
- Secure Server Linux: RAYS SS

- Embedded Linux: RAYS LE

- Business POS System

- Mobile Storage System

- Schoolware X

- Cinema Management System

- ......

Education Market

- 140,000 sets of Desktop Linux (Jiangsu Province)

- PC providers: TCL, Founder and etc.

- Primary/high schools-oriented

- Providing SchoolWare teaching management platform

SUNWAH POS System

- Based on Debian

- Supporting JAVAPOS /UPOS

- Supporting POS hardware

- Providing complete retail solutions

- Simple, fast and safe

- Providing customized on-demand services

■SUNWAH Linux Mobile Storage System

- Pre-installed in mobile storage device

- Making mobile storage device intelligent

- Reliance-free operation
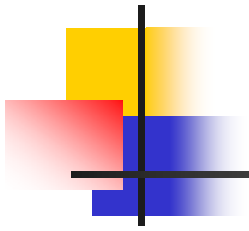
- Security protection

- Cooperative partner:

SUNWAH LINUX Cinema Management System

- Conforms to "Computerized Cinema Ticketing Management Software Technical Specification (GY/T 207-2005)" released by the State Administration of Radio, Film and Television

- Professional Desktop Linux

- Complete solutions

**Let's work together!
Thanks!**