

Activities of LPI-Japan for Human Resource Development on Linux/OSS

2011/10/18

Shinichi Matsuda

Technology Manager

Linux Professional Institute Japan, NPO



Agenda

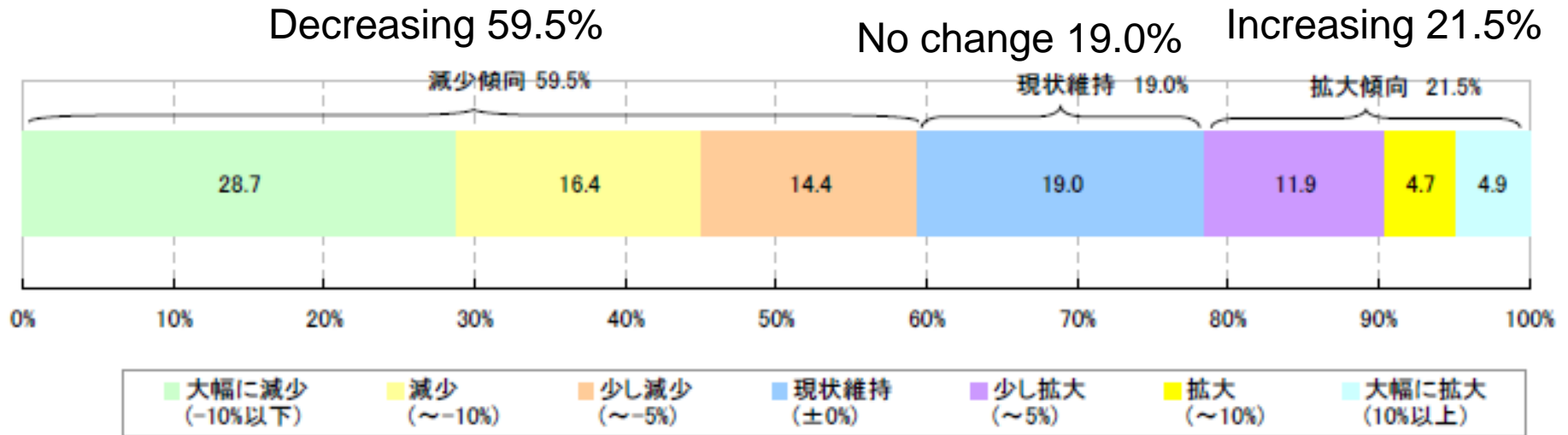
- Statistics for Linux/OSS engineers in Japan
- LPI-Japan's activities to spread Linux/OSS and contribute to human resource development
- How engineer certification helps human resource development



IT Business Trend in Japan (1)

■ All IT Business in Japan

- About 60% of Japanese companies say overall IT business volume is decreasing



by IPA Japan, 2010

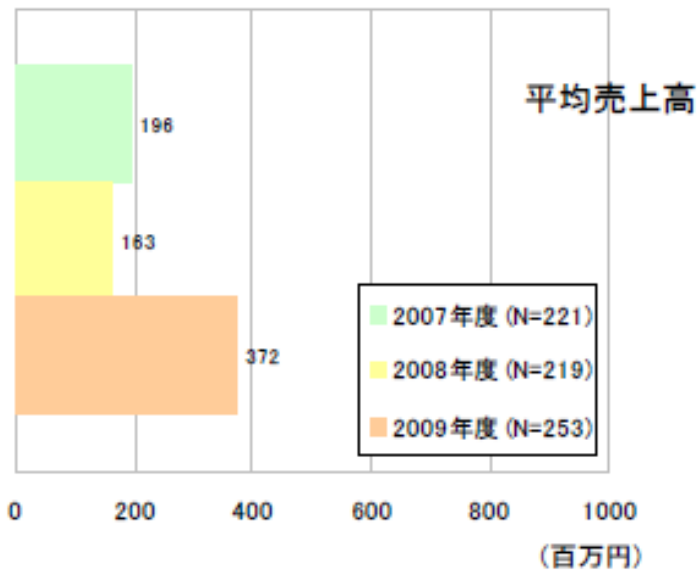


IT Business Trend in Japan (2)

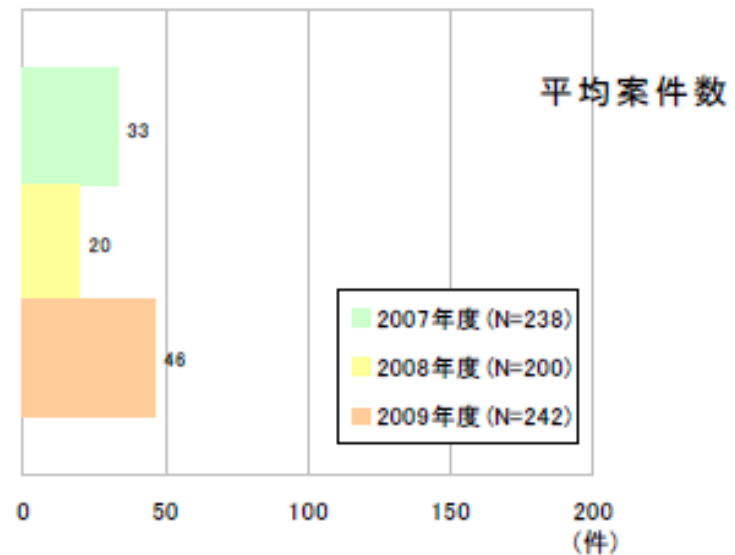
■ OSS-related business

- Although overall IT business is decreasing...
- Number of OSS-related projects is increasing
- Each OSS-related project is getting bigger

Average Sales / Project



Average Number of Projects

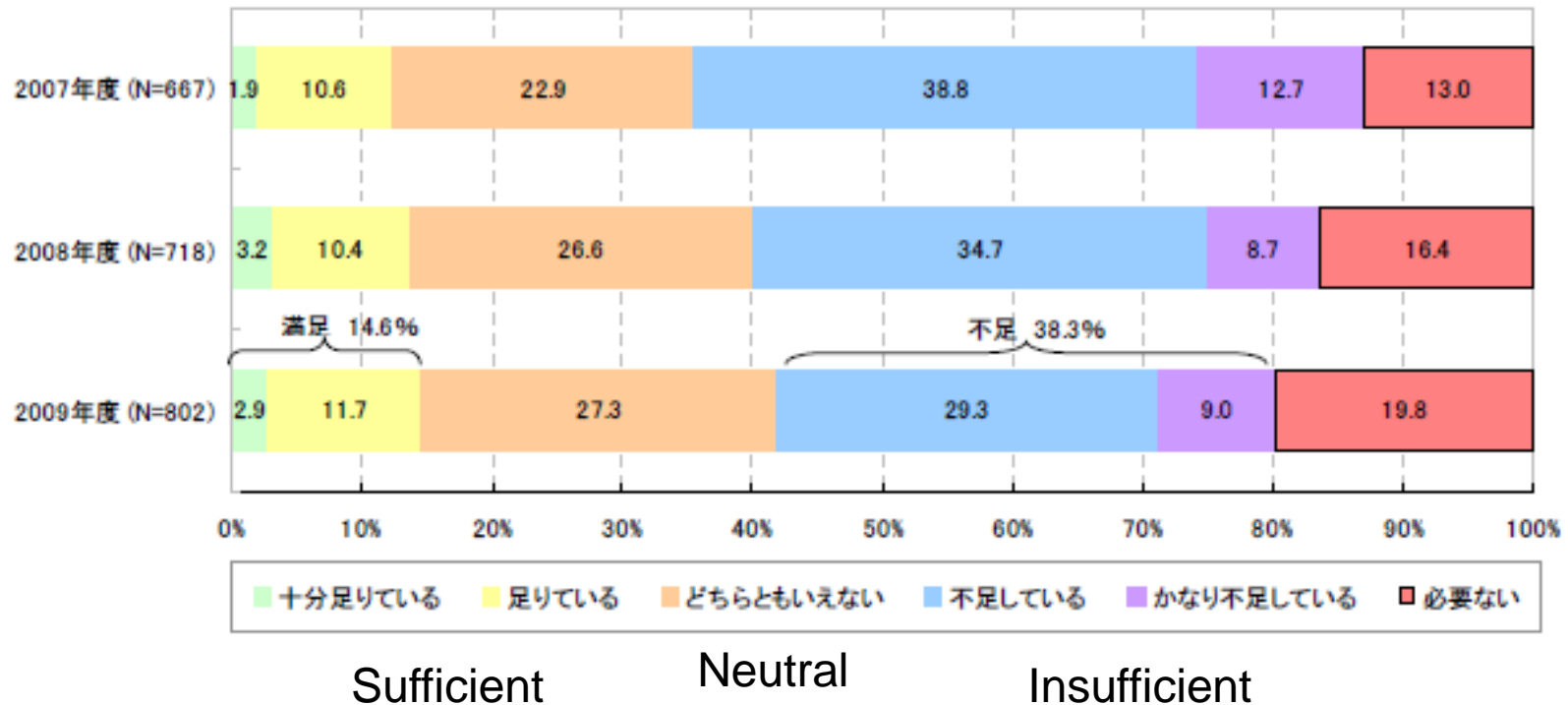




Do we have enough OSS engineers? (1)

■ Sufficiency and insufficiency of OSS engineers – Trend

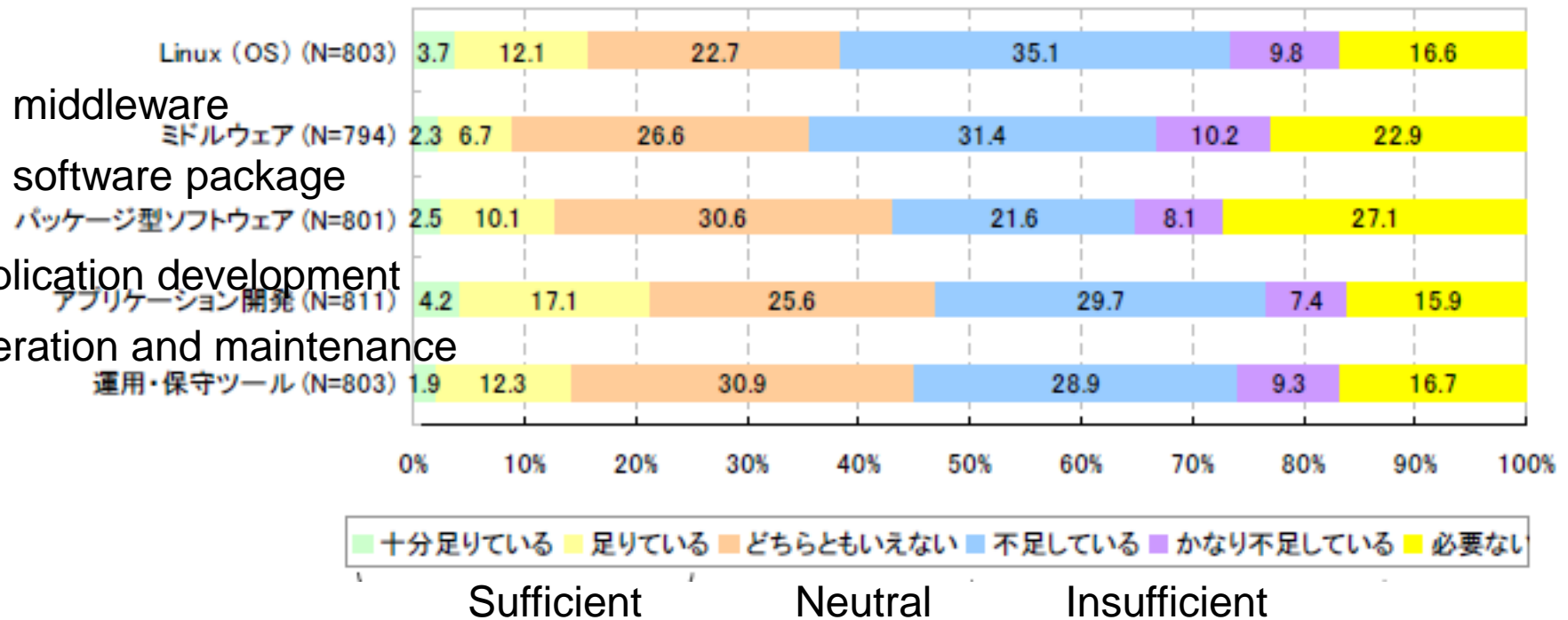
- Number of OSS engineer is increasing
- Still about 40% of companies have insufficient number of OSS engineers





Do we have enough OSS engineers? (2)

- Sufficiency and insufficiency of OSS engineers – each software
 - About 45% of companies have insufficient number of Linux engineers
 - About 40% of companies have insufficient number of middleware engineers

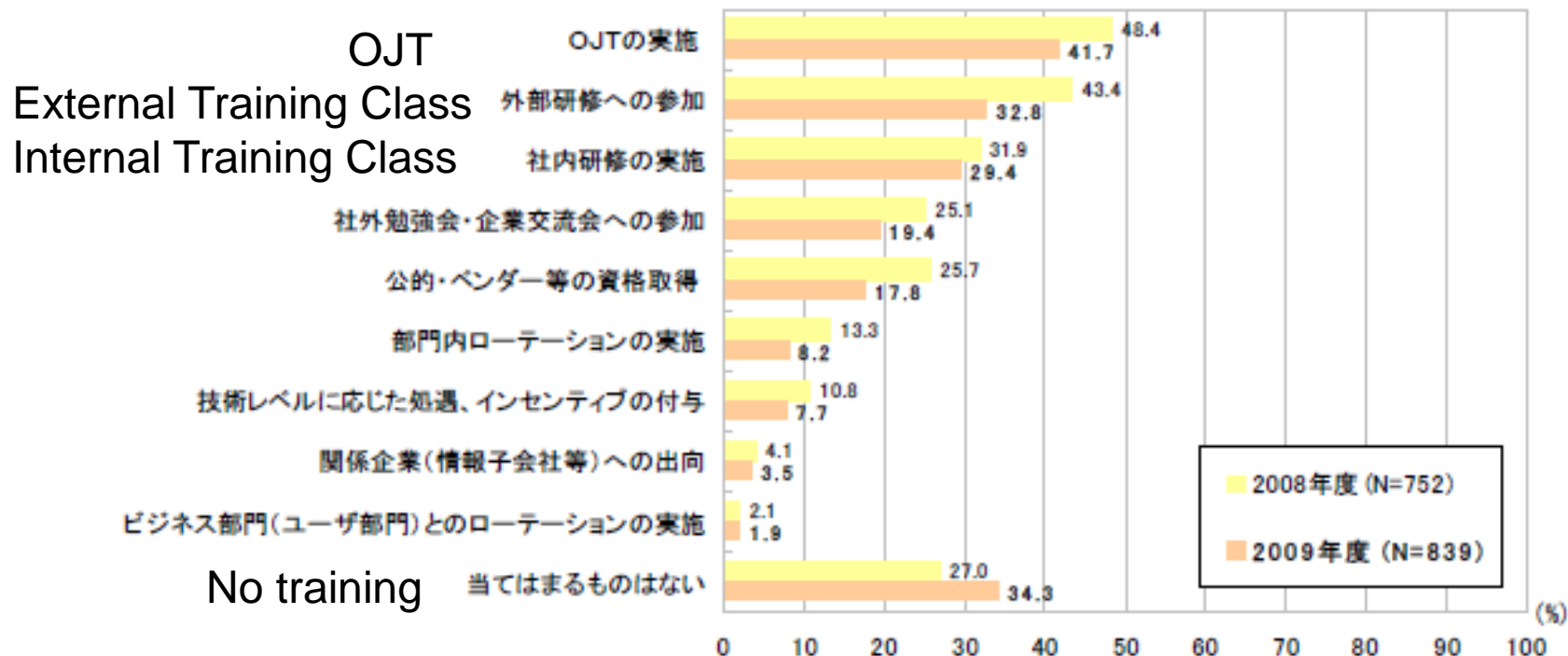




How companies train engineers

■ Training methods

- Many companies rely on OJT, external training classes and internal training classes, but all of those rates are decreasing
- About 30% of companies have no way of training and the rate is increasing





About LPI and LPI-Japan

■ About LPI

- Non-profit organization established on October 25, 1999
- Operational offices in Tronto, Canada and Sacramento, USA
- Delivering industry standard certifications on Linux/OSS worldwide

■ Our Mission and Vision

- To provide a global framework, industry leadership and services to enhance, develop and further lifelong professional careers in Linux and Open Source technologies.
- To become recognized as the #1 organization that provides global leadership, direction and skill standards for those who pursue a career in Linux and Open Source technology.

■ About LPI-Japan

- Non-profit organization established in 2000
- Delivering LPI's certifications (LPIC) in Japan
- Many activities to achieve our mission in Japan



LPI and OSS-DB Exams

■ LPI Exams (Linux)

- 101 & 102 : Test basic skills for Linux professionals
- 201 & 202 : Test advanced skills for Linux professionals
- 301 : Test capacity planning and other advanced skills
- 302 : Test mixed environment skills – Linux/Unix/Windows
- 303 : Test security skills
- 304 : Test virtualization skills and high availability skills

■ OSS-DB Exams (PostgreSQL database)

- Just started in July 2011
- Silver : Test basic skills for database professionals
- Gold : Test advanced skills for database professionals



LPI and OSS-DB Certifications

■ LPI Certifications (Linux)

- LPI-1 : Basic level Linux professional
 - Pass LPI-101 and LPI-102 exams
- LPI-2 : Advanced level Linux professional
 - Certified for LPI-1 and pass LPI-201 and LPI-202 exams
- LPI-3 : Enterprise level Linux professional
 - Certified for LPI-2 and pass LPI-301 exam
- LPI-302 : Specialist for Mixed environment
 - Certified for LPI-3 and pass LPI-302 exam
- LPI-303 : Security Specialist
 - Certified for LPI-3 and pass LPI-303 exam
- LPI-304 : Virtualization specialist
 - Certified for LPI-3 and pass LPI-304 exam

■ OSS-DB Certifications (PostgreSQL database)

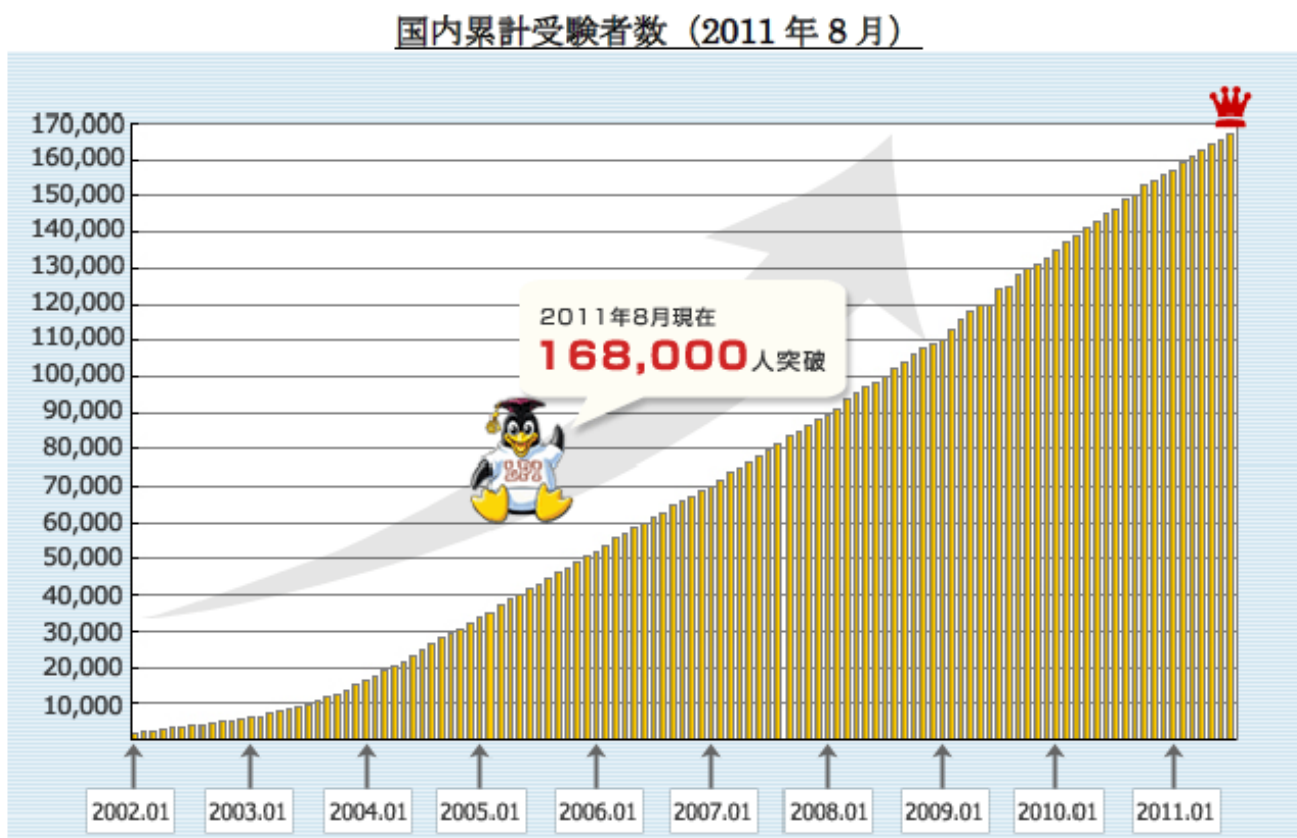
- Silver : Basic level database professional
 - Pass OSS-DB Silver exam
- Gold : Advanced level database professional

Pass OSS-DB Silver and Gold exams



LPI-Japan's Activities – Exams taken

- Growth in number of LPIC exam takers in Japan
 - About 170,000 as of September 2011





LPI-Japan's Activities – Certification

■ Growth in number of LPIC certified engineers in Japan

- 43,000+ LPIC-1 engineers
- 12,000+ LPIC-2 engineers
- 3,800+ LPIC-3 engineers





LPI-Japan's Activities – Seminars

■ Free Seminars

- 2 to 4 times a month
- 50 to 100 participants
- 3-hour lectures on Linux/OSS/LPIC
- 30-40% of participants take LPIC exams after attending the seminar

■ Charged Seminars

- 4 to 6 times a year
- 100 to 200 participants
- 4-hour lectures on advanced and latest topics about Linux/OSS technologies
- Fee is about JPY 10,000, but discounts available for LPIC certified engineers and free invitation to LPI-30x specialists
 - Incentive to get LPIC certification



LPI-Japan's Activities – Free Textbooks

- Linux Standard Textbook
 - Released in April 2008, and 180,000+ downloads
 - For Linux beginners
 - PDF file and iPad application
- Linux Server Setup Textbook
 - Released in in June 2009, and 100,000+ downloads
 - For Linux server administrators
 - PDF file and iPad application
- High-availability System and Virtualization Textbook
 - Released in February 2011, and 9,000+ downloads
 - For advanced Linux server administrators
 - PDF file and iPad application
- OSS-DB Textbook
 - Released in October 2011
 - For database beginners
 - PDF and EPUB files



LPI-Japan's Activities – With community

■ Mailing list of Linux engineers

- Write, review and update textbooks
- Q&A for textbook readers

■ Instructors community

- Organized by LPI-Japan, and only LPIC certified engineers can join
- LPI-Japan hold seminars for instructors once or twice a year to improve their skills
- Many organizations are looking for Linux instructors
- Provide opportunities to LPIC certified engineers



LPI-Japan's Activities – Training engineers

■ Approved Training Materials

- LPI-Japan assures quality of book or courseware
- Must cover all topics of one or more LPIC exams and have accurate description
- Good both for engineers, who are looking for good books, and for publishers who want to sell more books

■ Approved Training Partners

- LPI-Japan assures quality of training/education performed in a training/educational organization
- Must use LPI Approved Training Materials, have certain number of LPIC certified engineers as trainers and have a good environment for training/education
- Good both for the organization, who wants to accommodate more students, and for engineers/students, who are looking for a good school to study



How certification helps HRD

- LPIC is established as industry standard certifications
 - Many public entities list LPIC as one of a qualification as a bidder
 - Many companies have to develop or hire LPIC engineers
 - Many companies reimburse employees for LPIC exam fees
- Value of certified engineers
 - Job hunting
 - Certifications prove skills of engineers
 - Employers would prefer LPIC certified engineers to non-certified
 - Salary and/or bonus
 - Many companies raise salary, or pay bonus, for LPIC certification
 - Engineers are encouraged to study and get LPIC
- If industry standard certification is established and companies respect it, engineers are motivated and study it



谢谢

감사합니다

Thank you!

ありがとうございました

LPI-Japan