

LiMux



Landeshauptstadt
München

■ The first year LiMux in Munich

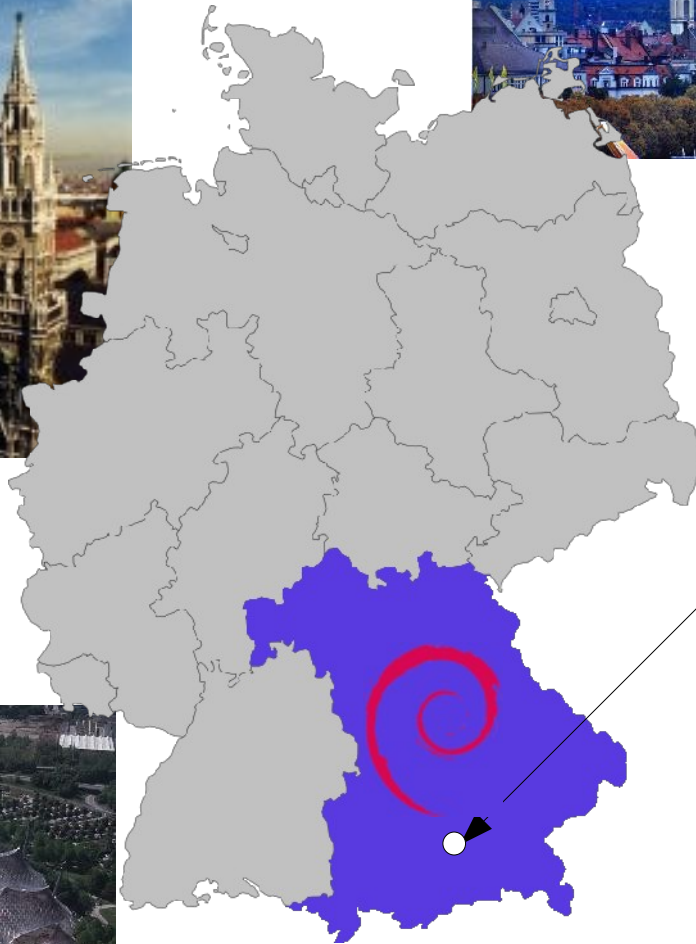
Florian Maier, Development Lead Linux Client

Mar del Plata, 15th August 2008



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Munich



- Capital of Bavaria
- 1,3 Mio citizens
- 3rd largest City of Germany
- 12th largest City of EU



Agenda

LiMux: history, decision, budget, status quo

Consolidation by migration to OpenOffice.org

The LiMux Basisclient: infrastructure and business applications

Lessons learned and other sources of information

The history of the LiMux project (1)

IT-structures have grown until 2002

- > 14,000 work stations in 21 organisation units
- Many different products and support concepts
- Independent processes in organisation units

Necessity: migration from Windows NT4 to ???

- Successor from Microsoft or
- Product on different platform?

The history of the LiMux project (2)

Course of action

- 2001-2003 Preliminary study, examination of alternatives
- 2003/04 Decision for LiMux
- 2003-2004 Conception
- 2005-2006 Preparation phase
- Since 2007 Productive use

This is LiMux

Aim

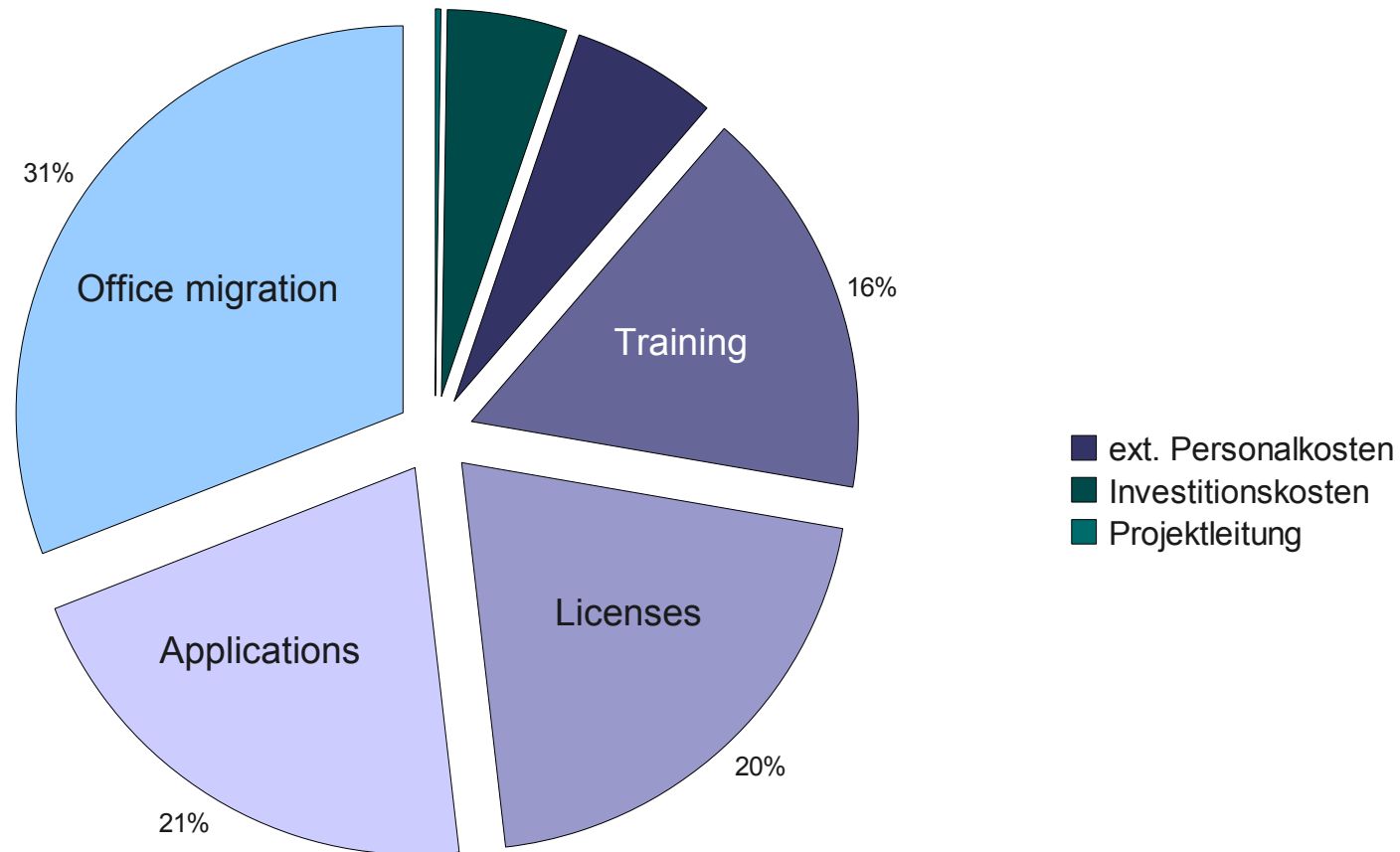
- More independence from software suppliers
- More equality of opportunities => more competition in the software market
- Controlling of costs (reduction)
- Complete open source code (maintenance, security)
- Demands on the protection of personal data

Decisions

- Free software for the operating system and office software
- Platform independent business applications

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Distribution of budget-effective costs (12,8 Mio €)



Employee training and competence enhancement

Aim: best preparation to staff members for changes

- Detailed requirement analysis and training concept
- Lessons (0,5 until 1 day) for specific selection of work relevant training moduls
- Assistance with E-Learning „LiMux Lernwelt“ for repeating and consolidation
- Scientific evaluation by Ludwigs-Maximilians-University
- „LiMux Lernwelt“ is approved and awarded with eureleA 2007

► Investment in high staff competence



Up to date numbers

14,000 workstations use free software

- E-Mail and browser everywhere

8,500 employees trained to use free software

- In training courses and additionally via elearning

8,000 workstations use OpenOffice.org

- ODF is going to be the standard interchange format

1,200 workstations run with the linux client

- 2 out of 12 department nearly completely migrated
- Many more clients after this years summer break

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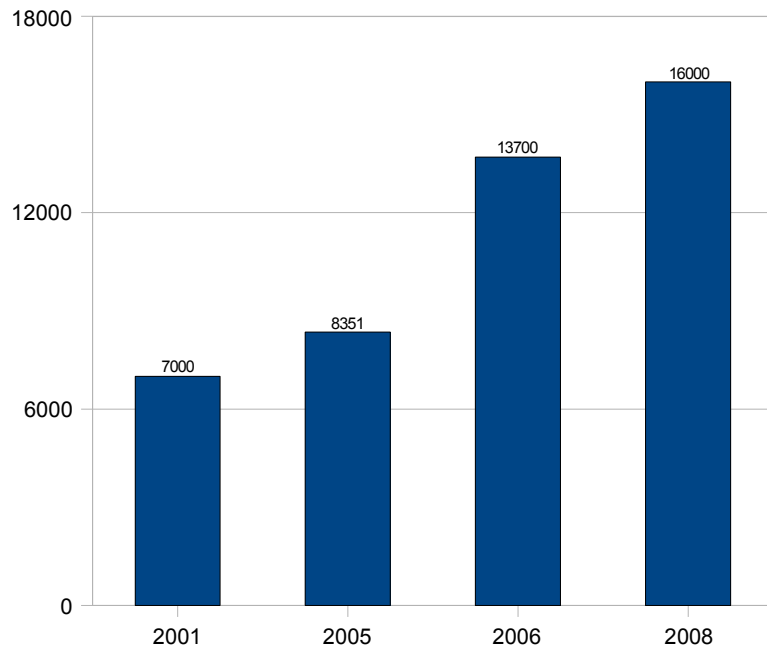
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Demands on the migration



Main results of detailed conception study (macros, templates, forms)

- ~ 16,000 MTF objects to be migrated
- Software solution redundancies, different solutions for same problems
- File exchange between Microsoft Office and OpenOffice.org

Migration is a chance for

- Consolidation: One solution for equal requirements
- Standardization: Same technical base

Success factor: WollMux as office solution



"Eierlegender WollMux" is the title of a project to develop an office solution including the following components

- Letter head system (reducing the migration of macros for 20%)
 - automatical fill in of user data by login
 - writing as another person (e.g. secretariat)
- Form system
 - compiling and adapting of templates or forms
 - generating documents based on this forms
- Text module system:
 - Helps by assembling documents with text modules
- Workflow of official degrees / paper based workflows
 - generating and printing of different document versions with special official degrees



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Success factor: WollMux as office solution



WollMux is free software!

- published under the European Union Public License (EUPL)
- <http://www.muenchen.de/wollmux>
- <http://wollmux.forge.osor.eu>

Facts:

- OpenOffice.org extension
- written in Java
- JRE from 1.5, OpenOffice.org from 2.04
- development since 2005
- until today more than 8,000 workstations in Munich use it

Success factor 2: Open Document Format

ODF - the standard for document exchange

- Permitting often easy solutions for complex emerging problems
- Standard of OpenOffice.org (well implemented)
- ISO standard for years
- Practical experience for years worldwide

Criteria

- Based on existing open standards
- Exists in more than one implementations
- Can be implemented without technical or legal problems
- Independent from a single vendor maintainable

Excursion: Concerns about concurrent standards

- The competition will be weakened by competing standards.
- The possibilities for using free software and open standards will be affected.
- The interoperability and communication between public authorities to citizens will be much more difficult.

Therefore: If there have to be parallel standards...

- ...it has to made sure that a seamless and loss-free document interchange between the two standards is possible.

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Demands on the LiMux base client

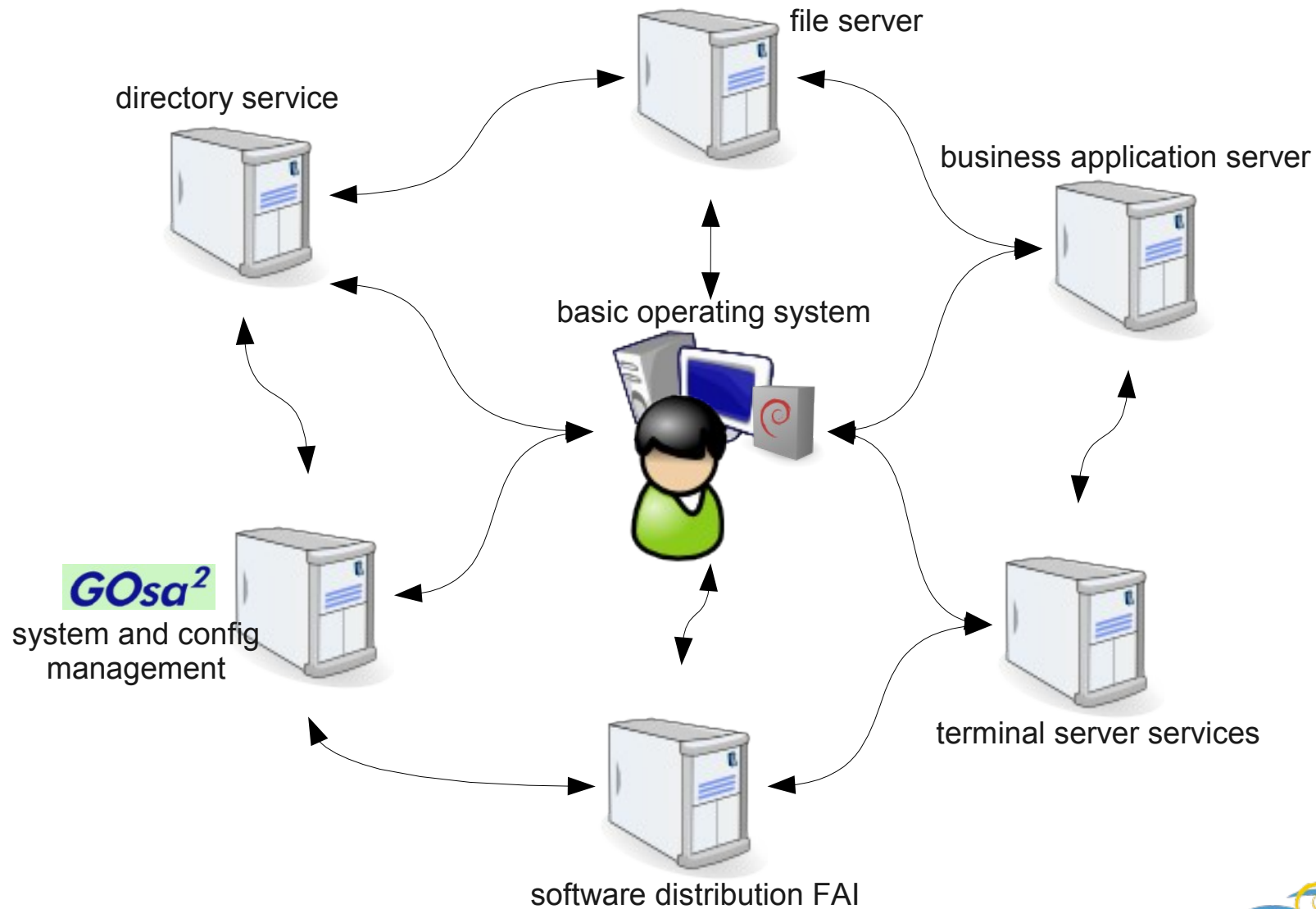
State before LiMux

- different file services for user and system management
- different solutions for software distribution
- more applications for the work with the file server
- 300 business applications (e.g. car licences) and standard applications (e.g. HTML, images editing)
- different operating and support processes

► Standardized base clients as a chance for simplification

- Infrastructure
- Processes
- Applications

Success factor 1: Infrastructure for the base client



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Sucess factor 2: TÜV sign for usability

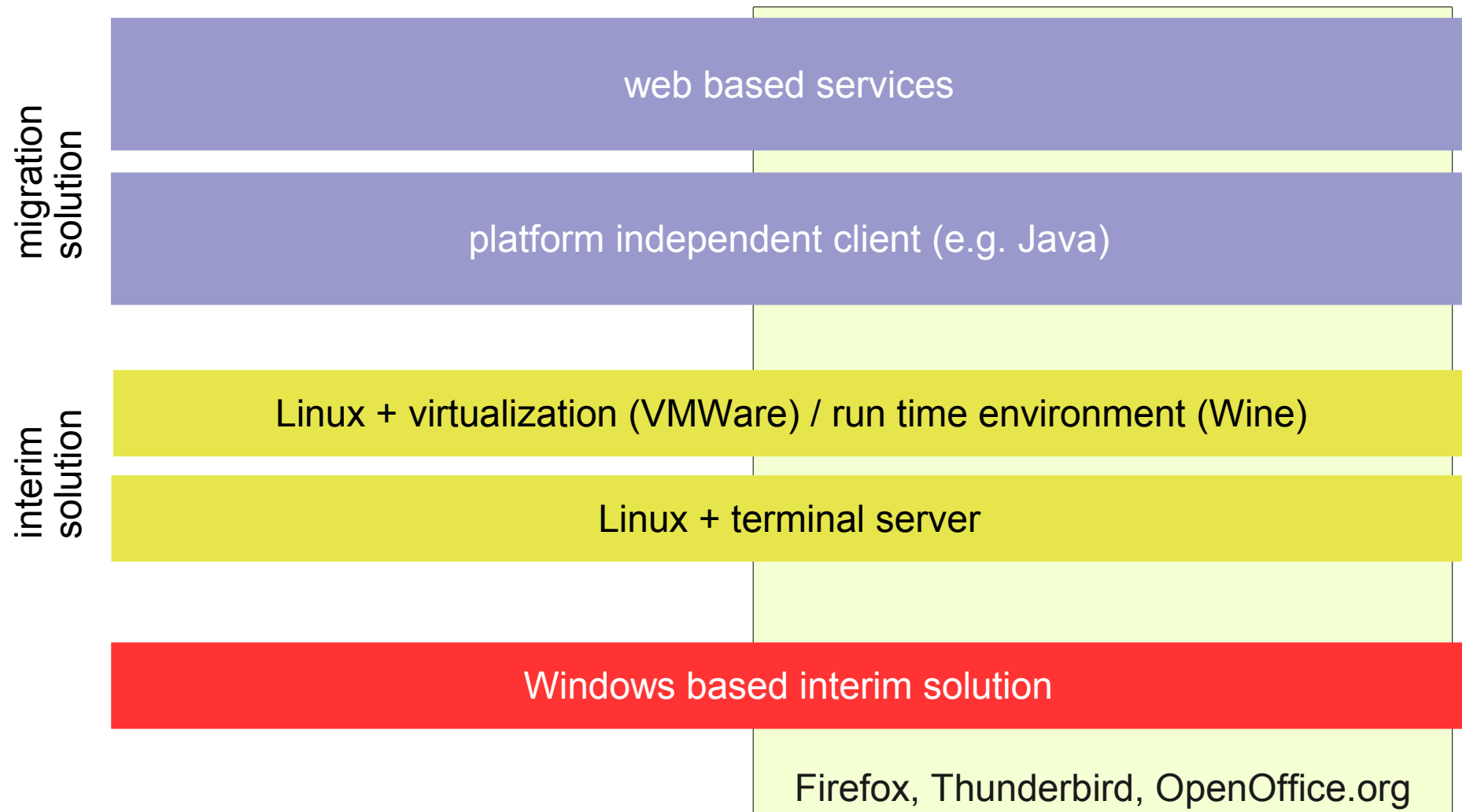
Made for feel good

- Supporting users with efficient handling of duties
- Reducing the relearning time
- Increasing acceptance by early integration of the users

- First worldwide certificated linuxbased work station
- Further development by usability guidelines



Success factor 3: The migration scenarios for business applications



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Lessons learned (1)

Standardisation

- Reducing the coordination efforts and support services with homogeneous processes, infrastructure and solutions.

Inspire the readiness to change

- Take the users seriously by global information and support. Speaking one's mind about plus and minus provides confidence.

Creating small example migration units

- For working like a charm: split great problems, start with small steps and copy the gained experience on to the whole.

Stakeholder management

- Internal and external communication peps the project up, gives support from government and policy, which means giving up resistance, solving problems and speeding up action

Lessons learned (2)

Higher complexity and range

- The quantity structure of migration will be higher than our first rating. During the project more organisational and technical problems will be detected.

Challenge problems

- Often technical barriers are advanced for disapproving organisational unmeant solutions. For true reasons you need a second view

Reduction on what is possible

- Complex systems for migration need long and extensive preparations without reduction on possible interim solutions.

We are not alone

- Munich doesn't work isolated: intensive transfer of know-how with other agencies, internationale partners and the Open Source Community generates solutions.

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Any questions, please?

Web:

[www.muenchen.de / limux](http://www.muenchen.de/limux)

[www.muenchen.de / wollmux](http://www.muenchen.de/wollmux)

www.planetlimux.org (unofficial)

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■ **Thank you for your attention!**

