

# LiMux



Landeshauptstadt  
München

- **LiMux - the IT-evolution**  
**Status of migration**



**LiMux**  
Die IT-Evolution

# Strategy: LiMux is a core item for a sustainable IT-strategy facing Munichs independance

- Munich is on its way to an open, modern and citizen centered administration
- „Munich focuses on free software and open standards. They are indispensable elements of our information technology.“ Lord mayor Christian Ude
- Currently, there are 22 different IT departments, supporting 15.000 PC-workstations
- The IT of the city of Munich is going to be reorganized. This includes centralization of plan, build and run, installation of new processes according to ITIL®, standardization of applications and modernization of the IT architecture
- LiMux is Germanys biggest Linux project in the public sector

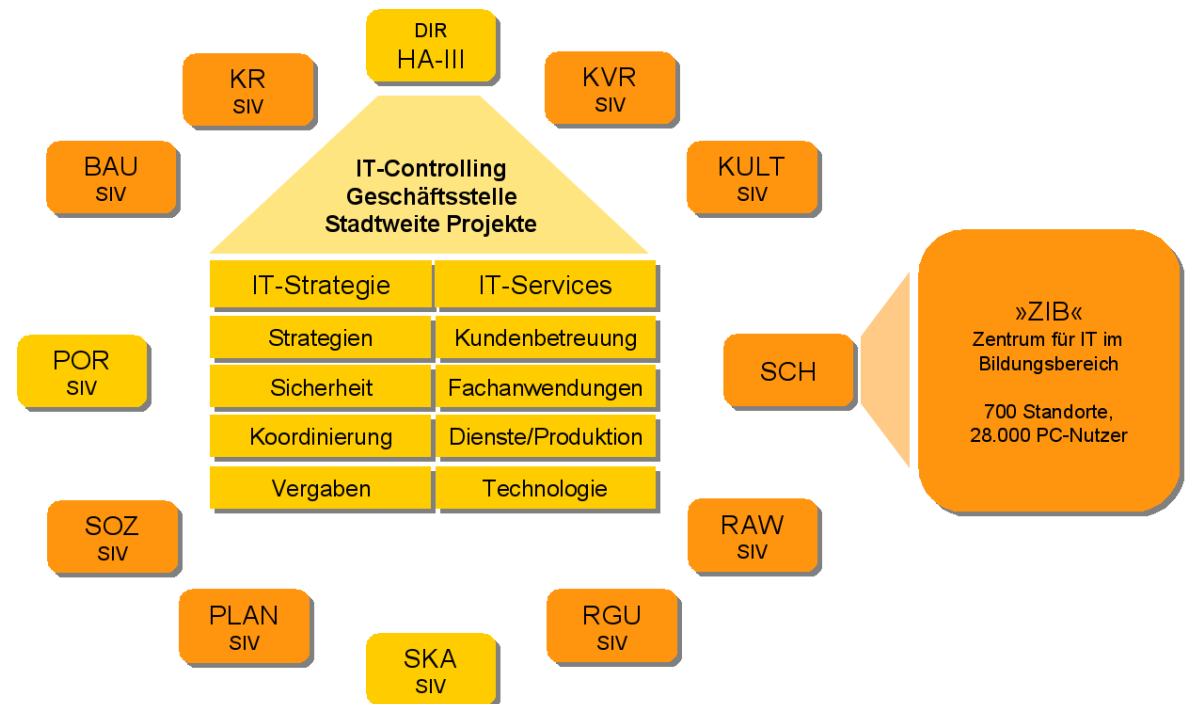
# The six main mandates of the city council of Munich

- Consistent linux based operating system (LiMux client)
- Vendor independent Office solution
- Migration of business applications to platform-open solutions
- Consolidation of PC-standard applications
- Consolidation and migration of MS-Office macros, templates and forms
- Implementation of system management solutions (standardization)

# IT-reorganization: Currently, the IT of the Munich administration is on its way to a rebuilding-process

## Facts

- ~ 33.000 employees (~ 1.000 located in the IT)
- ~ 15.000 PC-workstations
- 51 locations
- 22 independent IT-departments
- ~ 140 mio Euro IT-expenses



Reorganization of Munichs IT (centralization of Plan, Build and Run, standardization of business applications)

# Project goals: Open Source until 2013

## Purpose until 2011...

- Open source application programs for office communication are implemented for each user
- Document templates are systematically based in the open source document template tool „WollMux“

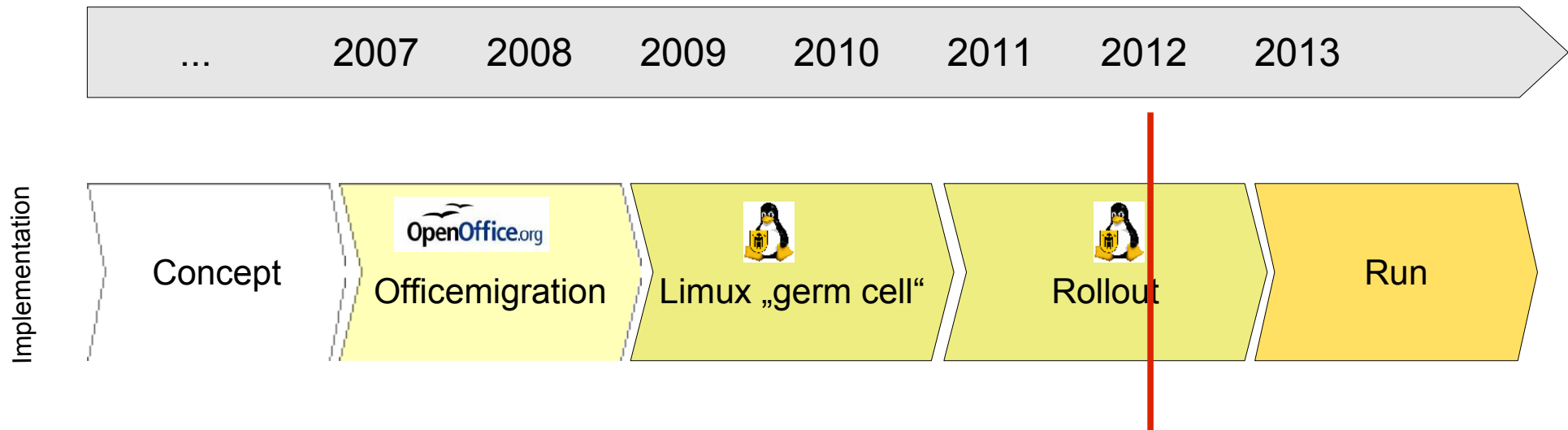
## Purpose until 2013...

- ~ 80% of all PC-workstations are migrated to the LiMux client.
- LiMux has successfully been transferred into the run process.

## Current status (June 2012) is

- ~10.500 PC-workstations are migrated
- Since 2009, all PC-workstations have been provided with OpenOffice.org, Firefox and Thunderbird
- Since 2009, WollMux has been established as a standard document template tool.
- Currently, new processes and functionalities are being prepared for the run process.

# Progress of the project: Migration „on the fly“ (running business operations)

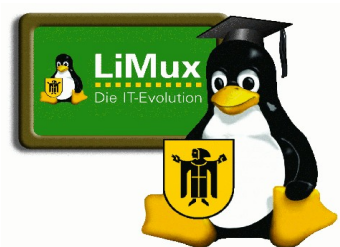


## The project LiMux supports the centralized IT department regarding

- Standardization (infrastructure, operating system, software versioning)
- Consolidation (Templates, macros, applications)
- Automatization (software distribution FAI/GOsa)
- Virtualization (server & desktop)

## Training: Effective employee training (focus on the person)

	Basic	Advanced
LiMux client	Training for all employees duration 0,5 – 1 days	Training for IT advisor Duration as required
OpenOffice / WollMux	Training for all employees duration 0,5 – 1 days	Advanced trainings Duration depending on Office module



Additionally to face-to-face – trainings, the employees are using an e-learning – system, covering all important topics (Office Suite, LiMux Client, ...)

## **Sustainability:** LiMux is required for an open, consistent and innovative IT

- Standardization of the IT Infrastructure
- Consolidation of all documents and templates
- Vendor independant release management
- High software-quality achieved by expanding Know-How, internal support and dedicated testmanagement
- Involvement of all departments (requirement engineering / test)
- Transparency of IT costs
- New processes and functionalities (MITKonkreT)



# eOS: extended Office - support center (interface to customer)

Objectives of the competence center are diverse:

- Analysis of the current status (more than 21.000 macros, templates, forms (MTFs), including several solutions for the same problem)
- Listing, assessment, consolidation of requirements
- Finding an adequate way for adjustments
- Coordination of procurement for von MTF-packages or
- Support in the transposition of macros
- Training and coaching
- Quality management and -control



# Step by step to the Office migration

- **Identifying and classification of convertible Office-objects**

Partially automated storage and packaging of logical units in a data base

- **Consolidation of duplicates and inadequate templates**

Duplicates, obsolete or defect duplicates have automatically been removed.

- **Migration der Office-Elemente unter ständiger Einbeziehung von Kunden und QS**

Im Migrationsprozess hatten Kundenvertreter die Verantwortung über Auswahl und Abnahme der Migrationsobjekte. Die Arbeit der Migrationsteams wurde von einer unabhängigen QS begleitet.

# Results of the macro migration

- Controlled, documented and quality assured macro repository
- Standardization of ODF as a standard data format for Office-documents within the administration of Munich
- Consolidation rate of 40% (migration of macros, templates and forms)
- Munich now has control about formerly rarely documented data, distinctly improved maintainability of Office-objects
- Consistent integration of CI-Richtlinien
- Planeinhaltung bei Budget und Zeit
- Das Budget für die Makroumstellung wurde unterschritten (ca 20%) werden, die Zeitvorgabe eingehalten

# WollMux: the leading application (www.wollmux.org)



Standard Formulare Bienchen LiMux VE-Check Extras

Wollmux, Felix (D-III-ITD-D10)    Externer Briefkopf    Interner Briefkopf    Kurzmitteilung    Fax-Vorlage

Formulare Beschlussvorlagen Li

Externer Briefkopf als Formular  
Faxvorlage  
Kurzmitteilung  
Antragsvorlagen\_Urlaub ▶  
Vorläufige Haushaltsführung

**Externer Briefkopf**

**Empfänger**

Zustellvermerk: Einschreiben mit Rückschein

Empfänger Zeile 1: Herr Peter Hofmann o.V.i.A.  
Empfänger Zeile 2: Direktorium  
Empfänger Zeile 3: D-III-LiMux  
Empfänger Zeile 4: Herzogspitalstr. 24  
Empfänger Zeile 5: 80331 München  
Empfänger Zeile 6:   
Ihr Schreiben vom:   
Ihr Zeichen:   
Unser Zeichen:   
Datum: 21.07.2010

Abbrechen    Adressauswahl    Als Pdf speichern...    Drucken...

Unbenannt 4 - OpenOffice.org Writer

Datei Bearbeiten Ansicht Einfügen Format Tabelle Extras Fenster Hilfe

Fließtext    Arial    11

Einschreiben mit Rückschein  
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Ihr Schreiben vom    Ihr Zeichen    Unser Zeichen    Datum  
21.07.2010

# Interoperability: exchange of documents and information may cause problems

Current communication rules within the city of Munich:

- PDF format for documents to external recipients
- Editable documents use ODF
- If interoperability problems occur => talk to the communication partner

Possible solutions

- To resolve the source of the problem, e.g. formatting, to avoid macros, to customize the application
- Exceptional permission for MS-Office

# Scenarios for the migration of business applications

Migration-  
solutions

webbased realization

platformindependent Clientapplications (e.g. Java)

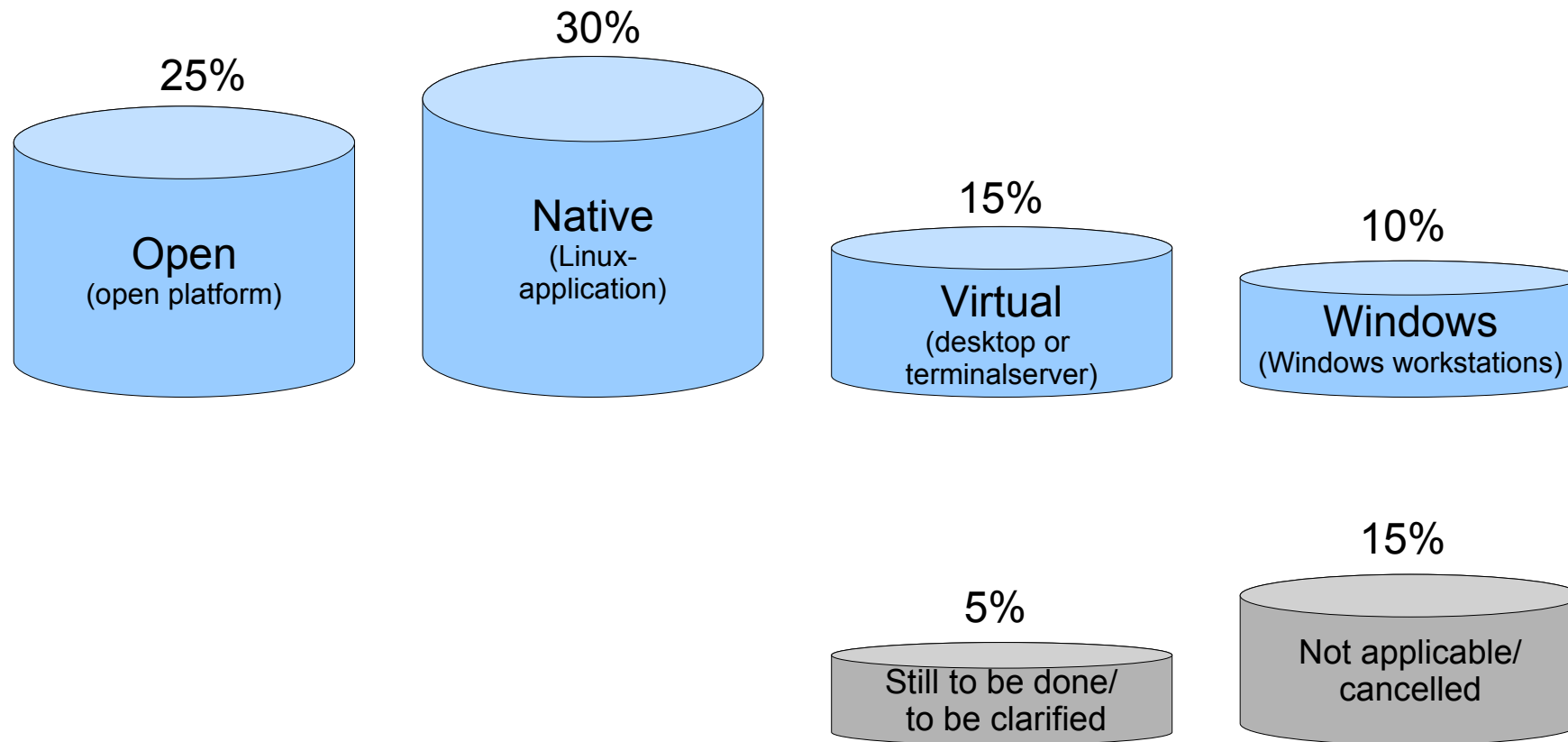
Interim-  
solutions

Linux + terminalserver

Linux + virtualisierung (VMWare)

Windows-Interimsolution

# Current status: Business applications on different solutions



# Facts and costs

Please see

<http://www.muenchen.de/rathaus/Stadtverwaltung/Direktorium/LiMux/LiMux-in-der-Presse.html>



# Lessons learned ???



## Standardization!

Consistent processes, infrastructure and solutions help to reduce efforts in coordination and support enormously.

## Motivate people towards changing what they do

Adequate information and support in the change process makes people feel being taken seriously; an open communication and making advantages and disadvantages transparent creates confidence.

## Don't forget to question the „problems“

Are there real problems? Sometimes people refer to technical obstacles, just to having a reason to refuse unknown solutions which may let them feel uncomfortable. Often, it is worth to look twice, so that true reasons get visible. This means a trustful collaboration with the concerned people and enables to find acceptable solutions.