

# Migration Discourse Structures: Escaping Microsoft's Desktop Path

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# **Theoretical Starting Point & Research Question**

- Software markets as network markets: increasing returns, path dependency, lock-in
- Focus on large organizational adopters: organizational context matters & "beacon" role of large organizational first movers
- How Following the program of a program is a tion of the product of the product

#### Method



# Linux in Munich: Case Study Database

transcripts	
interviews / persons	7 / 7
talks / persons	3 / 3
$\Sigma$ transcripts / persons	10 / 9
per functional area (transcripts / pers	sons):
political administration	2/2
central IT	5/3
decentral IT	2/2
external*	2/2
media coverage (2001-2007)**	
articles (online / print)	68 / 34
archival documents	
sets of slides	11
agenda papers	31
miscellaneous	7

\* "external" includes service provider and consultants

\*\* articles from the following sources from 2002-2007 : Heise.de, Computerwoche, FAZ, FR, SZ



**Method** 



## Analysis of transcripts in three steps:

- (1) Paraphrasing (Meuser/Nagel 1991)
- (2) Coding of Paraphrases in atlas.ti (Miles/Huberman 1994)
  - Meta-categories: "barriers and drivers for the adoption of an alternative (i.e. non-Microsoft) desktop operating system"
  - Inductive sub-categories
- (3) Classify inductive sub-categories as "Programs" or "Frames"

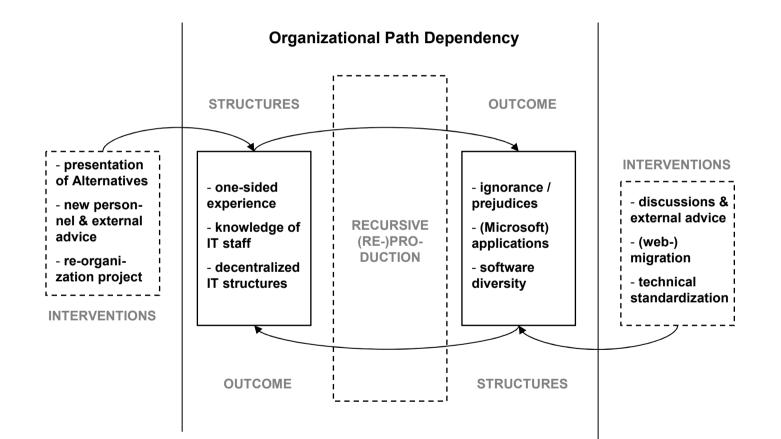
### Media coverage and archival data:

- Used to cross-check interview data and for temporal ordering

Results



## **Barriers to migration & path-breaking interventions**



**Results** 

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# Migration decision process: the road to GNU/Linux

# Chronology of Events:

- 2001: Politician asks for office software alternatives >> IT compares products >>
- 2002: Politicians ask for more information >> external study >> IT and politicians change roles
- 2003: Ballmer visit >> competition of bidders >> preliminary decision second study
- 2004: New IT strategy und organization; resistance of decentralized IT staff >> definite decision >> tender >>
- 2005: Development of "Basisclient" >> test run >>
- 2006: Start of actual migration >> new data, new trouble

#### Interim Conclusions:

- Emergent process: "In for a penny, in for a pound"
- Momentum is stabilized via "sunk costs"

**Results** 

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# Product comparison prepared by the central IT department in 2001

Advantages	Disadvantages
<ul> <li>StarOffice is Open Source Software</li> <li>Lower purchase costs</li> <li>End of dependence on Microsoft</li> <li>Cross platform applicability (StarOffice)</li> </ul>	<ul> <li>Re-working in existing documents necessary because of <ul> <li>partial lack of import/export</li> <li>different macro languages</li> <li>differen object models</li> </ul> </li> <li>New product line needs requires more training and, therefore, leads to higher training costs</li> <li>There is no in-house training personnel</li> <li>Insufficent online-help (StarOffice)</li> <li>StarOffice/SmartSuite data formats are mostly not suitable for data exchange. Documents would have to be handed on in MS Office or RTF format.</li> <li>The already deployed – and payed for – MS Office products would have to be replaced all over although they are often not even amortized (to ensure readability in internal data exchange)</li> <li>No mail-client (SmartSuite)</li> </ul>

# The discourse: coalitions of actors & issues

	<b>Frames</b> (Top 3 out of 15 categories with a total of 439 codings)	Programs (Top 3 out of 12 categories with a total of 486 codings)
Political admini-	18,68 % anti-monopoly(***) 17,58 % (overall) profitability	27,14 % discussions 15,71 % external advice
stration	14,29 % public administration issues	12,86 % migration complexity(*)
Central IT department	25,98 % switching gains & efforts 18,63 % organisational structures(*) 15,20 % (overall) profitability	27,52 % migration strategy 24,03 % applications (incl. macros)(**) 9,30 % organisational know-how(*)
Decentral IT departments	26,39 % organisational structures(*) 22,92 % switching gains & efforts(*) 14,58 % expectations & uncertainty	17,09 % organisational know-how(*) 16,46 % migration strategy 15,19 % migration complexity(*)

(\*\*) unidimensional anti-migration code

(\*\*\*) unidimensional pro-migration code



# Interesting features and theoretical puzzles

- > The dialectic of "Total Cost of Ownership" (TCO)-calculations: financial valuation of all migration aspects transforms cost calculation into an allembracing debate on "rationality" of a decision
- > Public administration adopters as innovators: political aspects of FOSS coincide with (partly) political character of administrations; market for FOSS as a "moral market"
- Focus on intra-organizational dynamics: changing roles of actors during migration process and "discourse coalitions"



# Thank you for your attention.