UNIVERSITÄT OSNABRÜCK

Welcome to my lightning talk !

Do you hear me ?
Do you see me ?

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ArcGIS for Server

in an open source environment

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This presentation will show

- 
  my experiences,
- 
  technical details,
- 
  and challenges

- of running AGS in an open source environment

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- Open Source
- Operating System
- ArcGIS Server and RedHat
- ArcGIS Server and Ubuntu
- Solution for Ubuntu

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Introduction

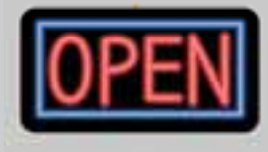
- Thomas Kolkmann
- University of Osnabrück / IGF
- GIS & GDSI System Administrator
- 2000-2009 Project Manager GIS at Deutsche Telekom
- Before 2000: CRM, Datawarehouse/BI, Expatriat, Data Center
- Since 2007 “akademischer Geoinformatiker” (UNIGIS)

Open Source?

Open Source? What does it mean?

- Source Code available for everybody
- Restrictions possible
- In this presenation:
  - without license fees
  - No restriction in number of users or computer clients
  - No restriction in purpose

Operating System?

	Microsoft Windows		
	Mac OS X		
	UNIX		
	Linux		

ArcGIS Server & Red Hat

- ESRI supports
  - Red Hat Enterprise Linux 
- ESRI does not support free
  - CentOS by RedHat (binary identical)
  - Scientific OS by Fermilab, CERN, ETH Zürich and DESY (binary identical)

ArcGIS Server & Ubuntu

- ESRI does not support
  - ubuntu
  - FREE!

- AGS Cloud Edition at Amazon EC2 uses
  - ubuntu
  - FREE!

Solution for Ubuntu?

- ESRI solves it
- Can we solve it? Where to look?
  - Have a look at ./framework/ directory !
  - Architecture is recognized by
  - ./framework/etc/arcenv script
  -

Solution for Ubuntu?

```
# try to use the system one if it's there
        if [ -f /usr/bin/Xvfb ]; then
          XVFBBIN=/usr/bin/Xvfb
        elif [ -f /usr/X11R6/bin/Xvfb ]; then
          XVFBBIN=/usr/X11R6/bin/Xvfb
        else
        # fall back to our own
          if [ -f /etc/SuSE-release ]; then
            XVFBBIN="${XVFBHOME}/SuSE/Xvfb"
          elif [ -f /etc/lsb-release ]; then
            XVFBBIN="${XVFBHOME}/Ubuntu/Xvfb"
          else
            XVFBBIN="${XVFBHOME}/RHEL/Xvfb"
          fi
        fi
```