

# *NEST 1.1 Project platform Fast Introduction*



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# Agenda



- ✦ *What is NEST Project Platform ?*
- ✦ *Technology and virtualization*
- ✦ *Deployment in organization*
- ✦ *Network Infrastructure*
- ✦ *Tool Domains*



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# What is NEST Project Platform ?

# What is NEST Project Platform?






- ✦ *"MPP" - Micro Project Platform*
- ✦ *Collaborative and constructive working environment*
- ✦ *Cost efficient tool selection (Open Source)*
- ✦ *Low administration overhead*
- ✦ *Based on virtualization*
- ✦ *Fast Ramp up*



# NEST ideology #1

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- ✦ *Collaborative working (based heavily on WI usage)* 
- ✦ *Project teams know  how to solve problems platform should not restrict solutions!*
- ✦ *Ready for modifications according  project needs*
- ✦ *Tools are able to fix if there is problems*
- ✦ *Platform is agile for further development*

# NEST ideology #2

- ✦ *Low license costs (Possible to reach 0€) makes possible to build efficiently multiple independent projects*
- ✦ *All project are using same tools without limits*
- ✦ *High integration between tools, because of centralized authentication*
- ✦ *Easy to maintain (Documented administration work)*



Linux platform

- *Test management*
- *Error management*
- *Version control*
- *Issue tracing*
- *Data storage*
- *Build service*
- *Statistic*
- *Forums*
- *Intra-Knowledge base*
- *Collaboration*



Project team size 1-n ?

# NEST Architecture



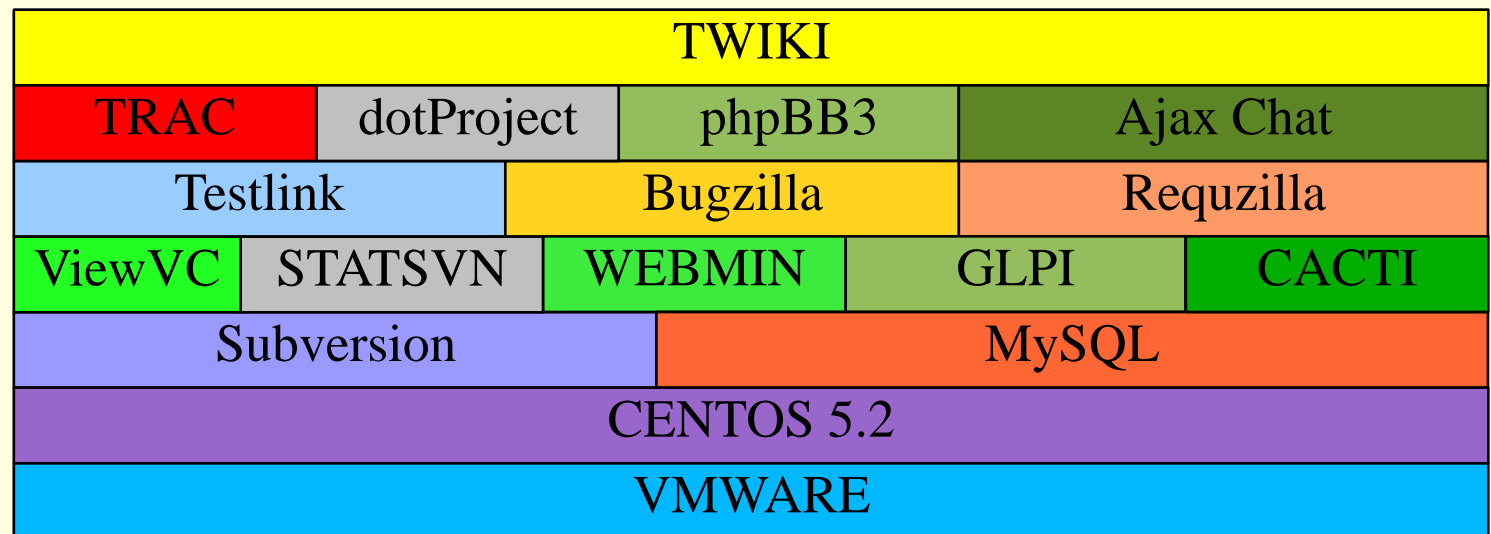
Project Management  
Knowledge management /  
Reporting / Collaboration

Project Work Flow

Statistics  
Administration

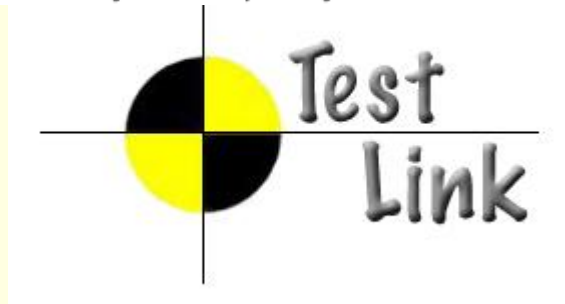
Version Control +  
Database System

Operating System  
Virtualization



# Best of Breed Open Source Tools

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# Technology and Virtualization

# NEST Project Platform Technology #1

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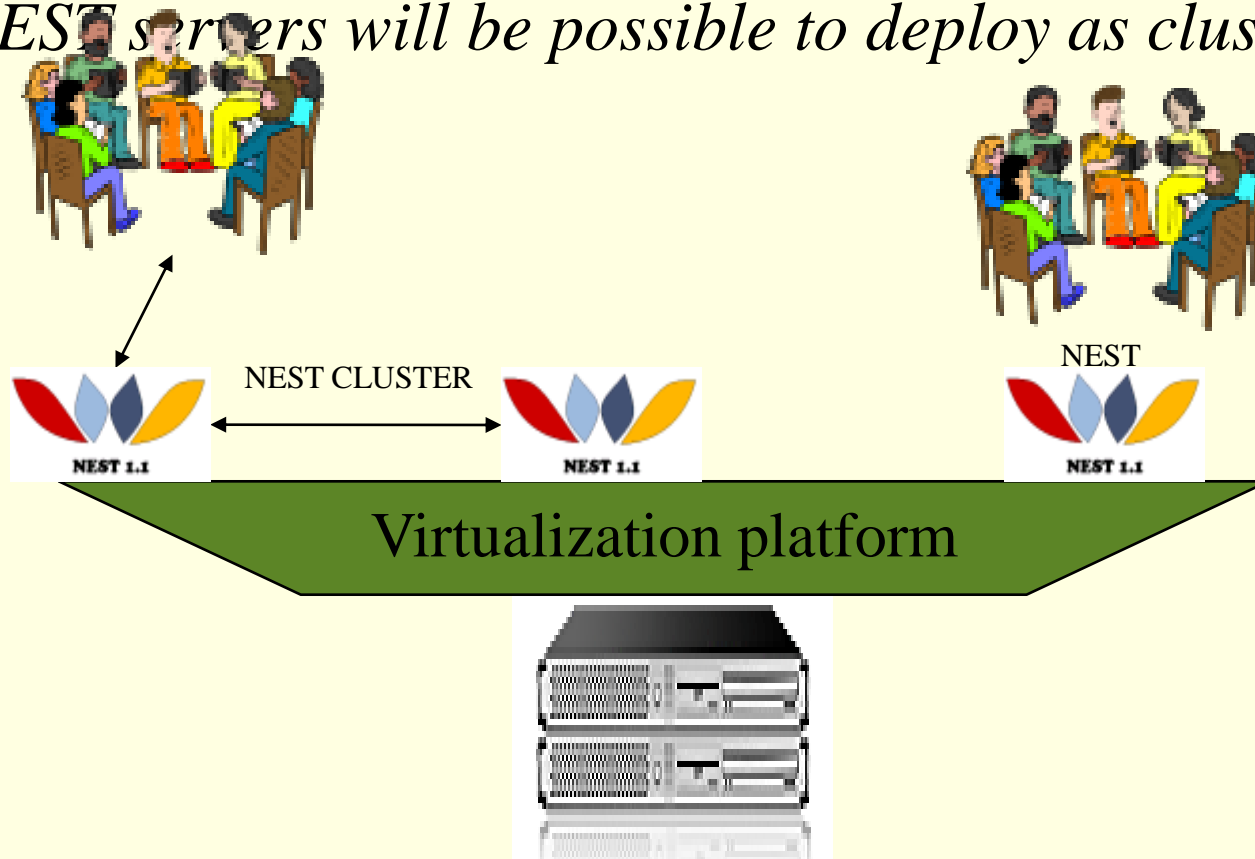
- ✦ *NEST v1.1 is based on pure Open Source software components which are pre-installed on one virtual machine image.*

- *Server platform Linux*
- *(Centos 5.2/RedHat 5.2)*
- *Database MySQL (5.0)*
- *Authentication OpenLDAP*
- *Web Server Apache (2.2)*
- *PHP 5.0 - Python 2.4 – Perl 5.8*
- *Virtualization using VMWARE / XEN*



# NEST Project Platform Technology #2

- *Virtualization platform provides service power in efficient way.*
- *NEST servers will be possible to deploy as cluster*

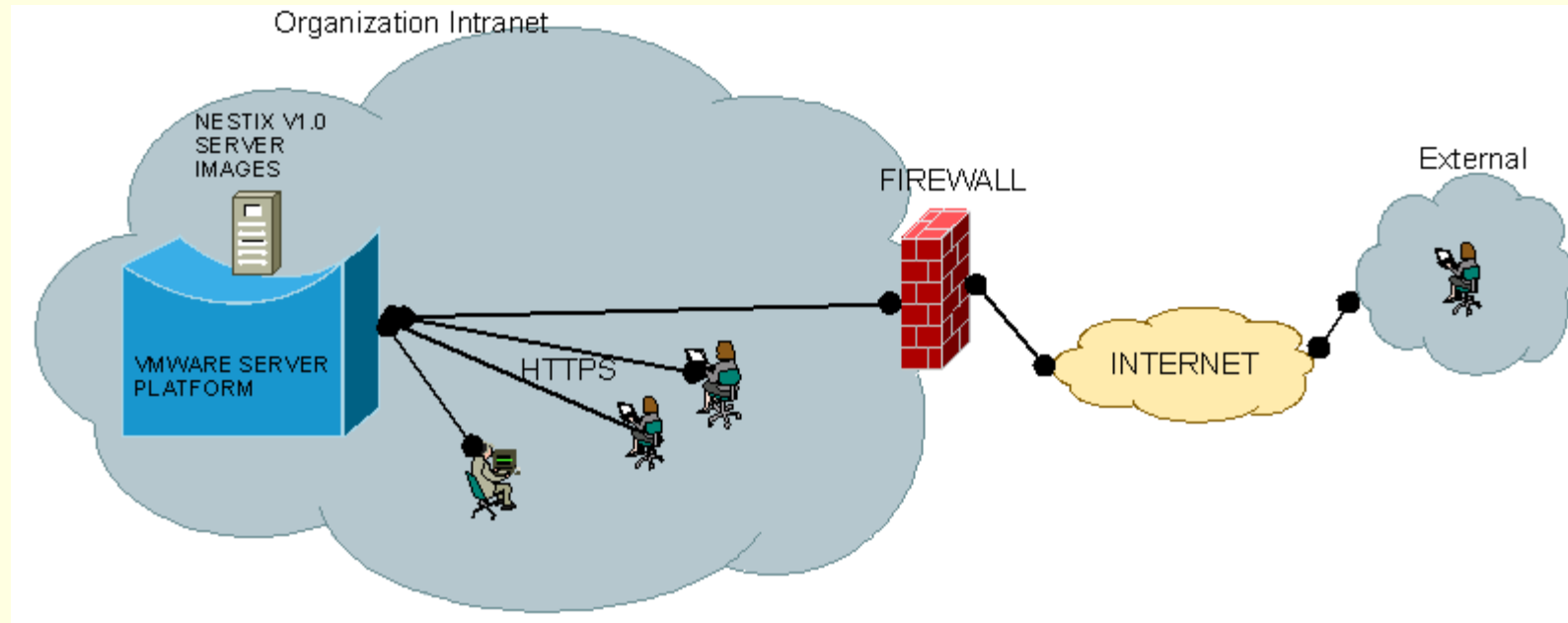




# Deployment in organization

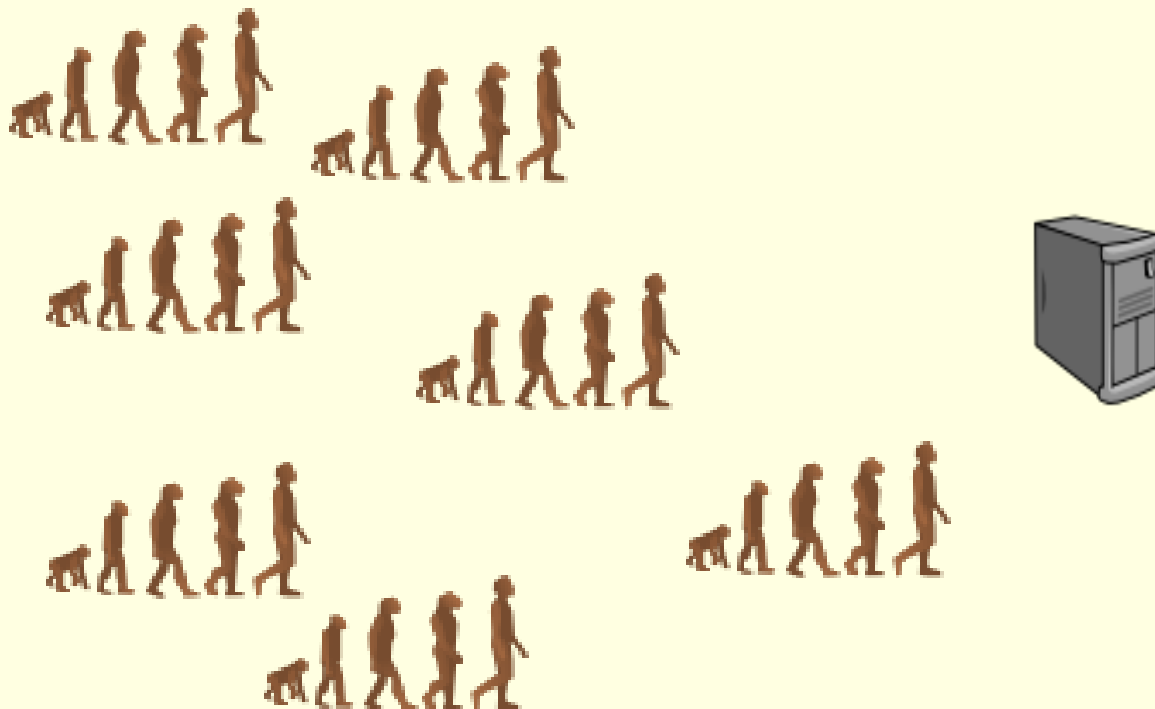
# NEST working in network

- *NEST Server could be located on DMZ (Demilitarized zone) where it is available for dedicated organizations or members.*



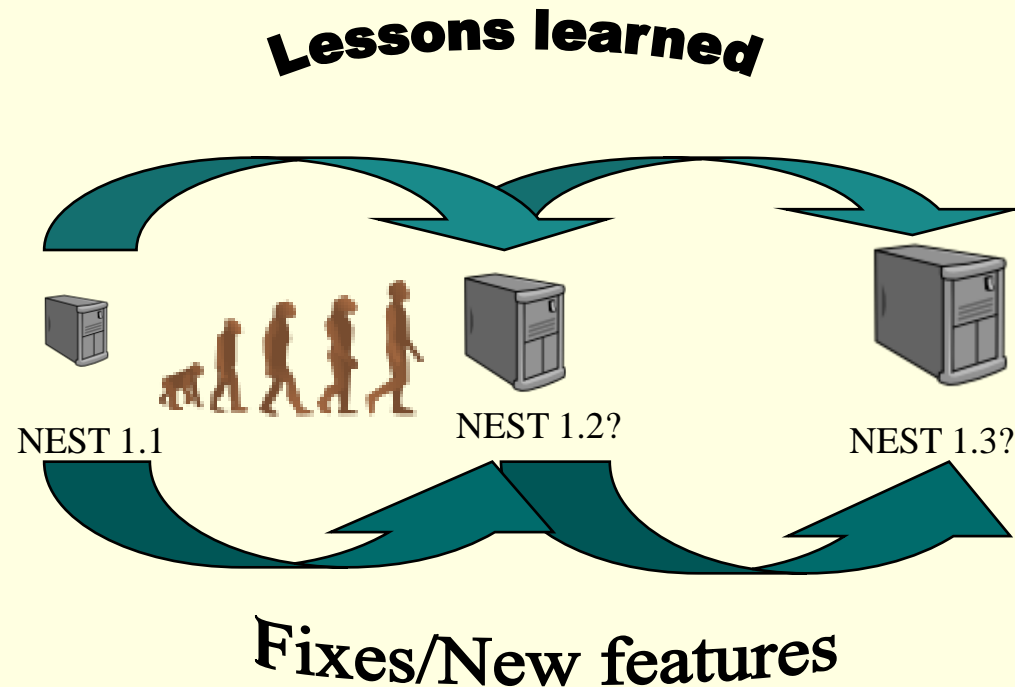
# Breaking up project organization model? #1

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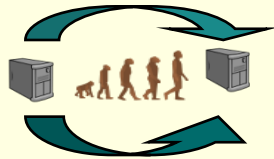
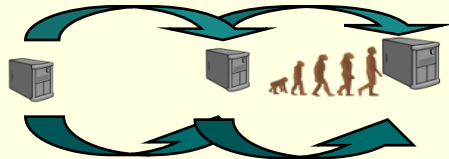
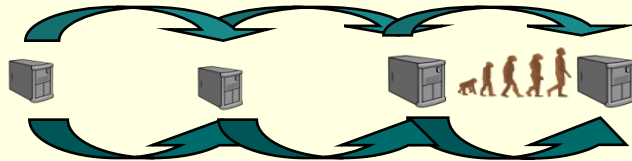
# NEST - Foundation for learning project organization?

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# Breaking up project organization model? #2

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**VS.**



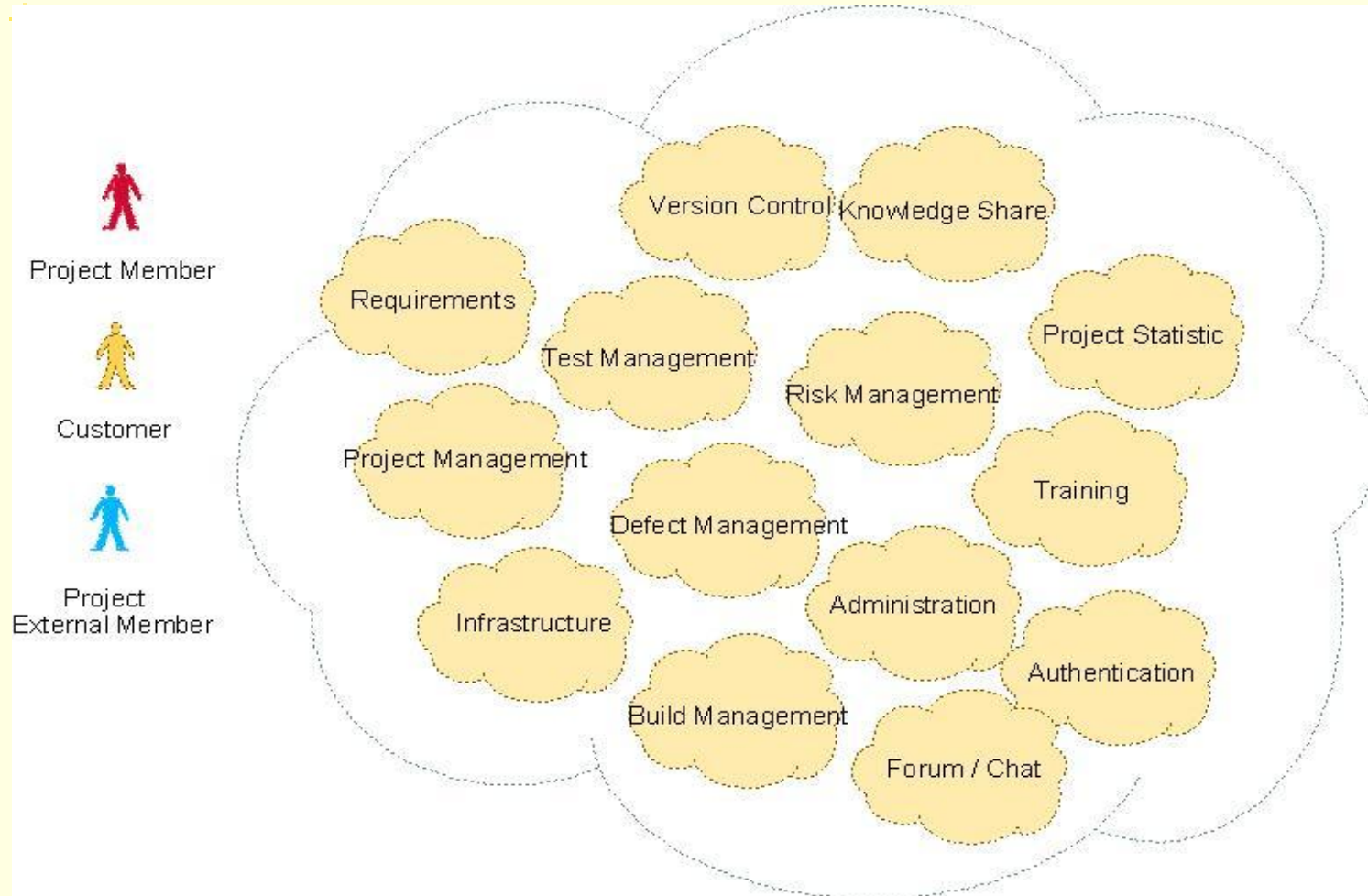
*One server to rule them all?*





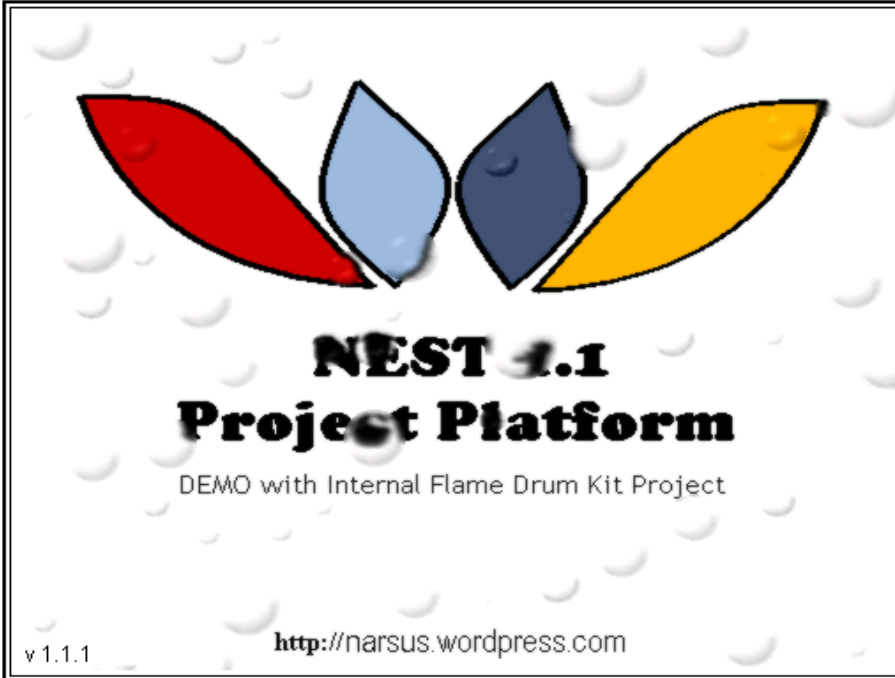
# TOOLS

# NEST tools and services



# NEST as virtual working environment






Welcome to NEST v1.1 Project Platform!



**NEST 1.1**  
**Project Platform**  
DEMO with Internal Flame Drum Kit Project

v 1.1.1 <http://narsus.wordpress.com>

- Project Wiki
- Project Tasks
- Project Management
- Project Web Disk Share
- Risk Status
- Requirement Status
- Version Control - Status
- Defect Management
- Test Management
- Infra / Processes
- Forum Chat
- Change Password
- About NEST 1.1

Powered by   collaborate with   

# WIKI as core technology



NEST 1.1 Project Platform Wiki

[Wiki Admin](#) [Print](#)  
[Edit](#) [Attach](#) [Move](#) [Raw](#) [Diffs](#) [More](#)

NAVIGATION

[Main](#) ^  
[Webs](#) ^  
[MySideBar](#) ^

[Main » WebHome](#)

## Welcome to Official Project WIKI! - 20 Sep, 2008 - week 38

Welcome to NEST Project Platform DEMO (v. 1.1.1)!!

Links

				
Information share	Design/Implementation	Work	Management	Reports
<a href="#">Process pages</a>		<a href="#">Simple Tasks List</a>	<a href="#">Back Log</a>	<a href="#">WebChanges</a>
<a href="#">Project Knowledge Base</a>	<a href="#">Features and Releases</a>	<a href="#">OfficialTopicCreatePage</a>	<a href="#">Error Management</a>	<a href="#">Project Status</a>
<a href="#">Project Documentation</a>	<a href="#">Project Design</a>	<a href="#">Project Training</a>	<a href="#">Requirement Management</a>	<a href="#">Meetings and Notes</a>
<a href="#">Contact List</a>	<a href="#">Big Picture of Project</a>	<a href="#">Project tools</a>	<a href="#">Risk Management</a>	<a href="#">Project CV's</a>

Edit

Latest News and Information

type	time	Description	by who
FYI	21.09.2008	<a href="#">OfficialCollectionOfOldFYI</a> old pages should be moved here	Narsu
Info	22.09.2008	Read <a href="#">AboutNEST?</a>	Narsu

Edit

[Printable](#)

# SCRUM with TRAC + Agile 42 modification

Project IFDK - Client

logged in as WikiAdmin | Logout | Preferences | Help / Guide | About Trac

Wiki  
Timeline  
Roadmap  
Browse Source  
View Tickets  
Search  
Admin  
Dashboard  
Teams

Search

## Roadmap

Milestone: **IFDK Client Rel 0.1**  
*No date set*

☐ Show already completed milestones Update

36%

Closed tickets: 4 Active tickets: 7 / Total tickets: 11

Add new sprint

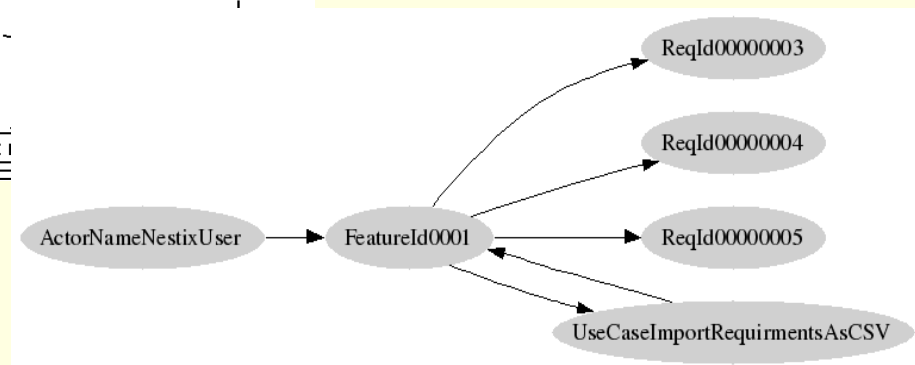
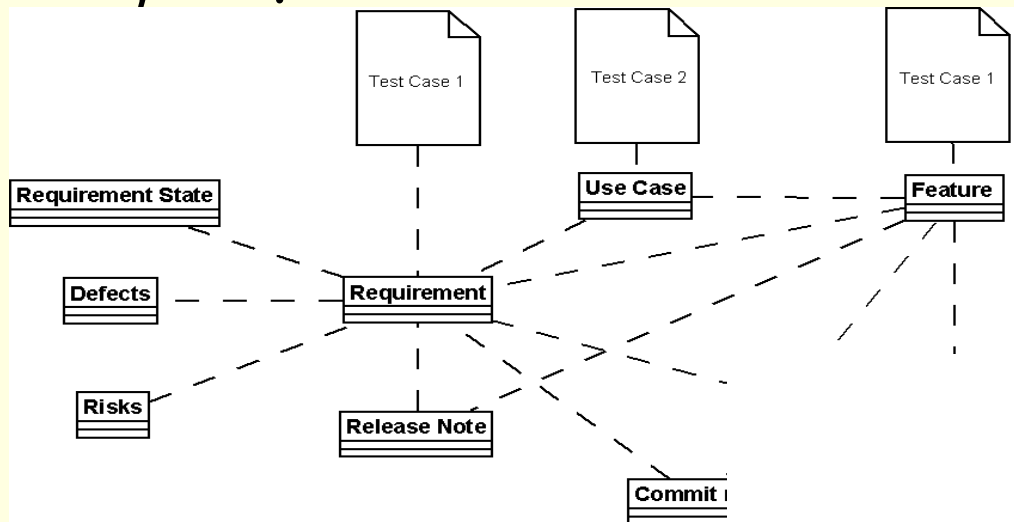
**Sprint: sprint 0**  
Due in 3 days (from 10/06/08 00:00:00 to 10/13/08 00:00:00)

**Sprint: sprint 1**  
Starting in 4 days (from 10/14/08 00:00:00 to 10/21/08 00:00:00)

**Sprint: sprint 2**  
Starting in 12 days (from 10/22/08 00:00:00 to 10/29/08 00:00:00)

# Requirements, traceability and testing

- TWIKI with several integration plug-ins provide high level traceability between different tool*



# Integrations between tools

## Features and requirements as references

Feature Id	Description	Requirements
<a href="#">FeatureId0001</a>	Local control panel	<a href="#">ReqId000006</a> , <a href="#">ReqId000009</a> , <a href="#">ReqId000010</a> , <a href="#">ReqId000012</a> , <a href="#">ReqId000053</a> , <a href="#">ReqId000044</a> , <a href="#">ReqId000110</a> , <a href="#">ReqId000111</a>
<a href="#">FeatureId0002</a>	General MIDI support	<a href="#">ReqId000006</a> , <a href="#">ReqId000009</a> , <a href="#">ReqId000010</a> , <a href="#">ReqId000012</a> , <a href="#">ReqId000053</a> , <a href="#">ReqId000044</a> , <a href="#">ReqId000110</a> , <a href="#">ReqId000111</a>
<a href="#">FeatureId0003</a>	Adjustable Hit Level	<a href="#">ReqId000006</a> , <a href="#">ReqId000009</a> , <a href="#">ReqId000010</a> , <a href="#">ReqId000012</a> , <a href="#">ReqId000053</a> , <a href="#">ReqId000044</a> , <a href="#">ReqId000110</a> , <a href="#">ReqId000111</a>
<a href="#">FeatureId0004</a>	USB Flash drive	<a href="#">ReqId000006</a> , <a href="#">ReqId000009</a> , <a href="#">ReqId000010</a> , <a href="#">ReqId000012</a> , <a href="#">ReqId000053</a> , <a href="#">ReqId000044</a> , <a href="#">ReqId000110</a> , <a href="#">ReqId000111</a>
<a href="#">FeatureId0005</a>	Metronome mode	<a href="#">ReqId000006</a> , <a href="#">ReqId000009</a> , <a href="#">ReqId000010</a> , <a href="#">ReqId000012</a> , <a href="#">ReqId000053</a> , <a href="#">ReqId000044</a> , <a href="#">ReqId000110</a> , <a href="#">ReqId000111</a>
<a href="#">FeatureId0006</a>	Kit Cover replace	<a href="#">ReqId000006</a> , <a href="#">ReqId000009</a> , <a href="#">ReqId000010</a> , <a href="#">ReqId000012</a> , <a href="#">ReqId000053</a> , <a href="#">ReqId000044</a> , <a href="#">ReqId000110</a> , <a href="#">ReqId000111</a>

phpBB  
creating communities

NEST-IX Project Platform Forum

Main forum for project

[Board index](#) < [NEST-IX Demo](#) < [Requirement Management](#)

[User Control Panel](#) (0 new messages) • [View your posts](#)

### FeatureId0015 Power management

[POSTREPLY](#)

#### FeatureId0015 Power management

by **WikiAdmin** on Thu Feb 21, 2008 9:25 am

There is something odd with current power management desing?? 🤔

If you agree you should do something?

I have started change proposal state for [FeatureId0015](#) at Reqzilla!

[POSTREPLY](#)

# Test management

ID 112 :: Test Case Battery level shown on the Kit

Version 1

Summary

Battery level must be shown on the KIT's screen

Steps

1. Turn the KIT on
2. Look for the battery level indicator
3. Play drums for 5 minutes
4. Take another look at the battery level

Expected Results

1. After turning the level indicator
2. After turning the level is shown
3. After playing with indicator has disa
4. After playing with indicator is still sl

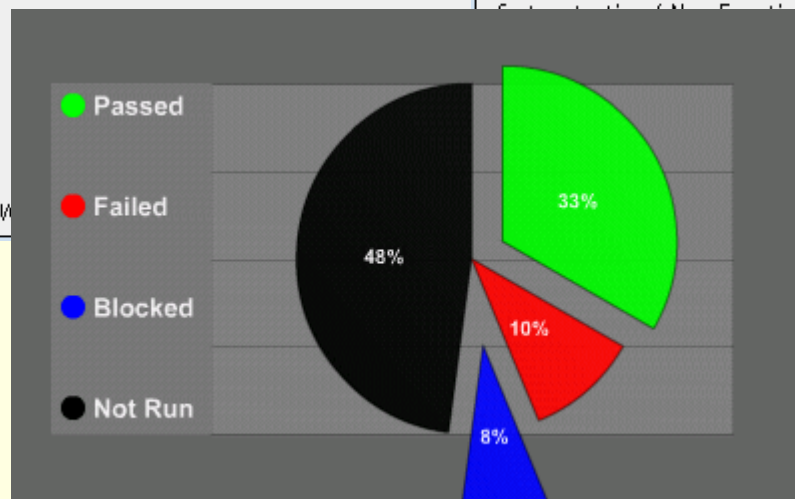
Keywords:

Requirements : None

Created on 02/04/2008 09:29:52 by W


Test Plan : System Testing

Test Suite	Test Case	Test Build 6	Test Build 7	Test Build 8
System testing / Non Functional System Testing / Performance Testing	136:Frequencies	Not Run	Passed	Blocked
System testing / Non Functional System Testing / Stress Testing	89:User doesn't get hurt	Not Run	Failed	Passed
System testing / Non Functional System Testing / Stress Testing	91:Test waterproof	Not Run	Passed	Passed
System testing / Non Functional System Testing / Stress Testing	93:Device doesn't overheat	Not Run	Failed	Passed
System testing / Non Functional System Testing / Stress Testing	124:Fire Resist	Not Run	Passed	Passed
System testing / Non Functional System Testing / Stress Testing	130:Bulletproof	Not Run	Failed	Failed
System testing / Non Functional System Testing / Stress Testing	134:Waterproof	Not Run	Passed	Not Run
System testing / Non Functional System Testing / Stress Testing	144:Does the speaker get affected by mobile phones	Not Run	Passed	Not Run





# Defect Management

**Bugzilla**

Bugzilla – Bug List

Home | New | Search |   | Reports | My Requests | My Votes | Preferences  
| Log out demouser@ss.ixonos.com

Mon Apr 7 2008 15:14:54  
hello world

ID	Sev	Pri	OS	Assignee	Status	Resolution	Summary
41	cri	P3	Wind	root@localhost.localdomain	NEW		FeatureId0015 Too slow start up for IFDK kit
42	enh	P5	Wind	root@localhost.localdomain	NEW		FeatureId0015: Risk of too narrow hw board
43	enh	P5	Wind	root@localhost.localdom			

3 bugs found.

CSV | Feed | iCalendar | Chan  
Change Several Bugs at Once

## Error STATUS

### Reported Defects at BUGZILLA [Check BUGZILLA](#)

<a href="#">Id</a>	Status	Priority	Decision	Desicion Status	Product	Description
<a href="#">41</a>	critical	P3	NEW		Project Bugs	FeatureId0015 Too slow start up for IFDK kit
<a href="#">42</a>	enhancement	P5	NEW		Project Bugs	FeatureId0015: Risk of too narrow hw board
<a href="#">43</a>	enhancement	P5	NEW		Project Bugs	FeatureId0015: Battery test failed!
<a href="#">44</a>	normal	P3	NEW		Project Bugs	Crash during hit ?

# Information available as Wiki pages

## ReqIdExample

*This is a example of Requirement*

Requirement

Description	This is a example of Requirement
Type of Requirement	System Requirement
Domain	Nestix System
Review status	Accepted

### References

Requirement Status	ReqId	Req State	Priority	Status	Reported By	Product
<a href="#">1</a>		Change Proposal	P5	NEW	<a href="mailto:root@localhost.localdomain">root@localhost.localdomain</a>	Project Requirements

Testcase Status	Test Case Id	Product	Case Name	Brief Case Description
<a href="#">4</a>		Example Project	Example of Testplan	Example test case This case verifies....

Bug Status	Id	Severity	Priority	Status	Reported By	Product	Brief Description
<a href="#">1</a>		normal	P3	NEW	<a href="mailto:root@localhost.localdomain">root@localhost.localdomain</a>	Project Bugs	ReqIdExample: This is a examp

[Forum discussion](#) [Check Forum](#)

[See 2 posts about "ReqIdExample"](#)

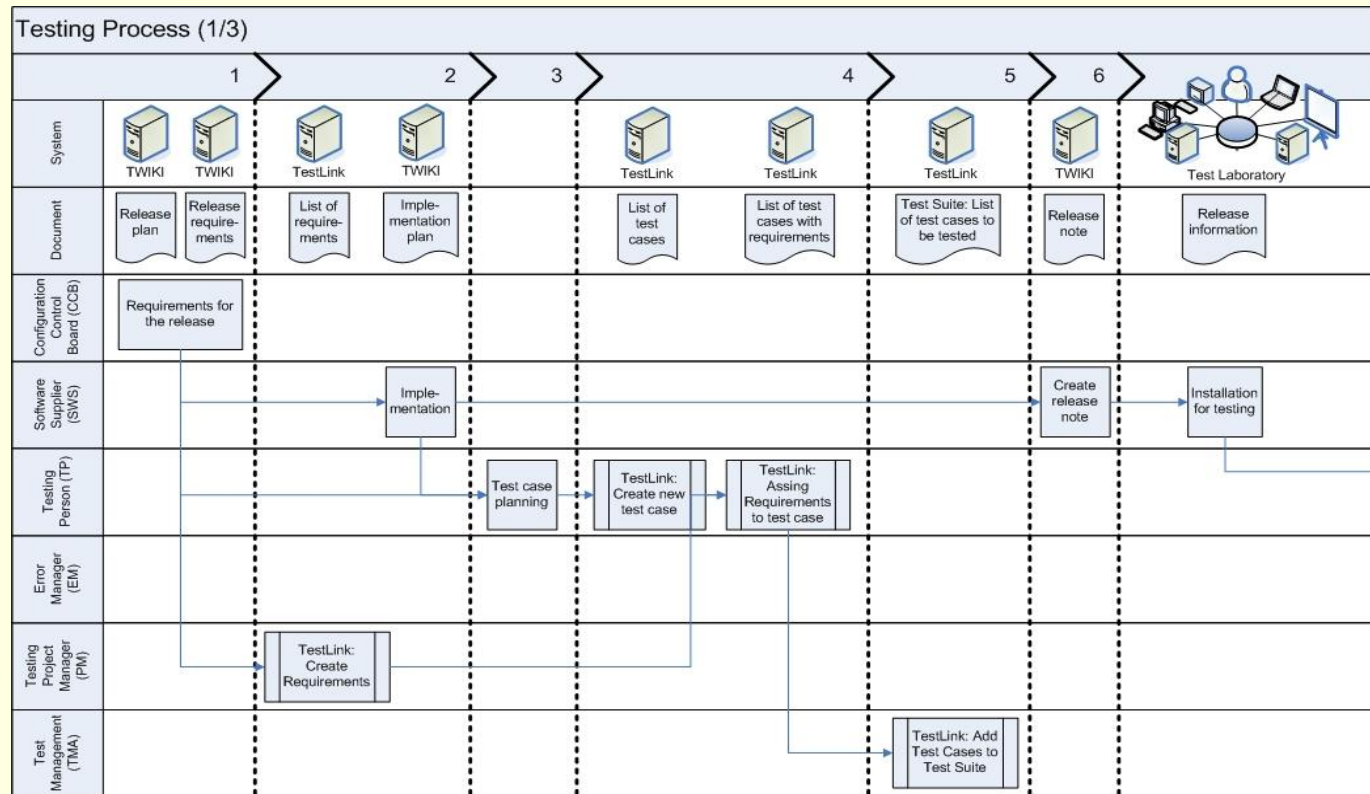
[Attachments in subversion](#) [Check Attachments](#)

FeatureIdExample



ReqIdExample

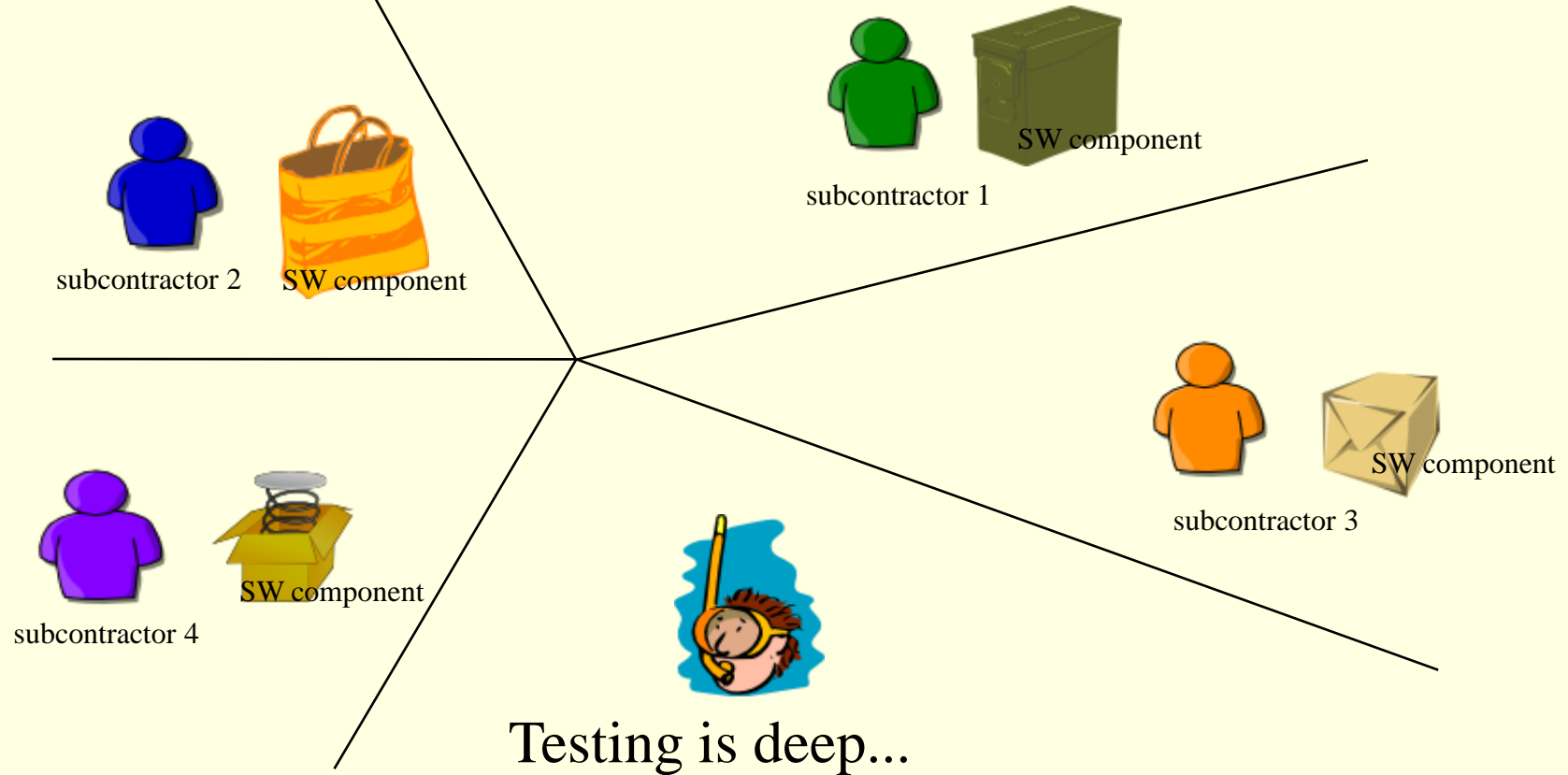
# Workflow and process for working





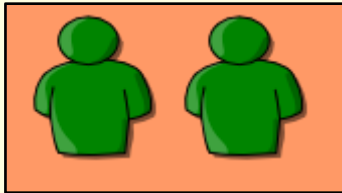
# Case Story

# NEST in System Testing Scenario



# NEST in System Testing Scenario

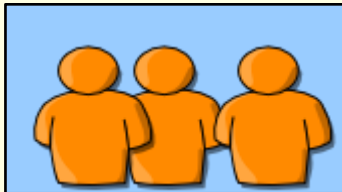
Different processes/intranets



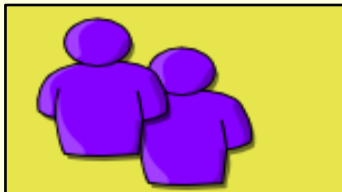
organization1



organization2



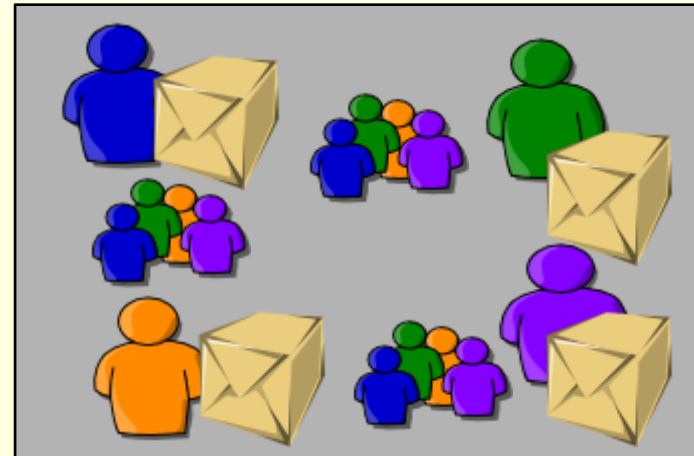
organization3



organization4

VS.

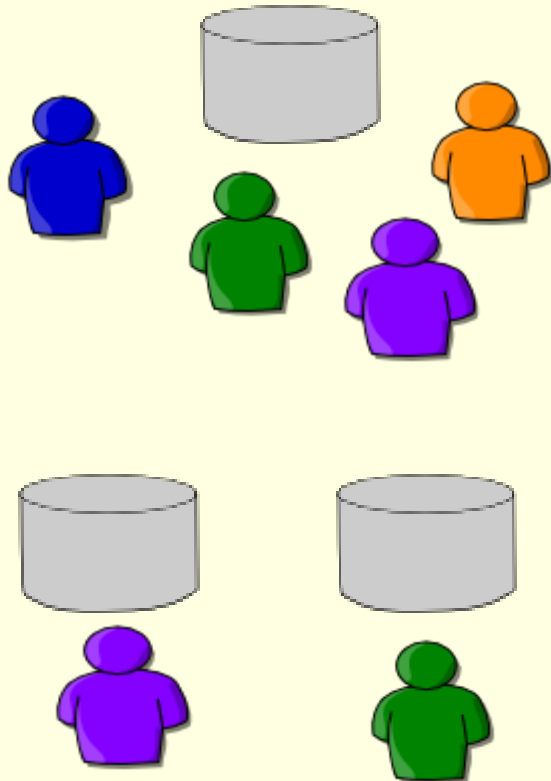
Same processes and intranet



4 X COSTS? > 1 X COSTS?

# What we can reach using open source?

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- Same tools for everyone ?
- No extra costs for licenses
- Scalability during project
- Focus on efficient usage
- All participants can work together – more agile ?

# Links

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## Blog / Wiki:

<http://narsus.wordpress.com>

[http://epofo.labranet.jamk.fi/wiki/index.php/NEST\\_Project\\_Platform](http://epofo.labranet.jamk.fi/wiki/index.php/NEST_Project_Platform)

## List of available tools:

<http://narsus.files.wordpress.com/2008/06/officialprojecttoolsnest11.pdf>

## Forum:

Google Groups – NEST Project Platform

## Demo Site:

Still missing....

## Download Site:

Still missing





# OPEN DOORS FOR OPEN SOURCE !

[narsuman@gmail.com](mailto:narsuman@gmail.com)

*Project Team:*



*Vision and idea*

*Project Manager: Marko Rintamäki (Ixonos Plc)*

*Implementation  
and ideas:*

*Jan Lapinkataja (Ixonos Plc)*

*Kimmo Varis (Ixonos Plc)*

*Heikki Paajanen (Ixonos Pcl)*

*Kai Perälä (Landis & Gyr)*



*NEST 1.1 Project platform*