



# Software Development Policies for LCG Applications

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# SDP Overview

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- Software Development Policies (SDPs)
  - CVS tree layout
  - C++ Source Code conventions
  - Build tree layout
  - Install tree layout
  - Tagging and Releasing rules
- SDPs are:
  - a set of **documents** that describe policies
  - some **tools** to make it easier to apply policies



# Why we need SDPs?



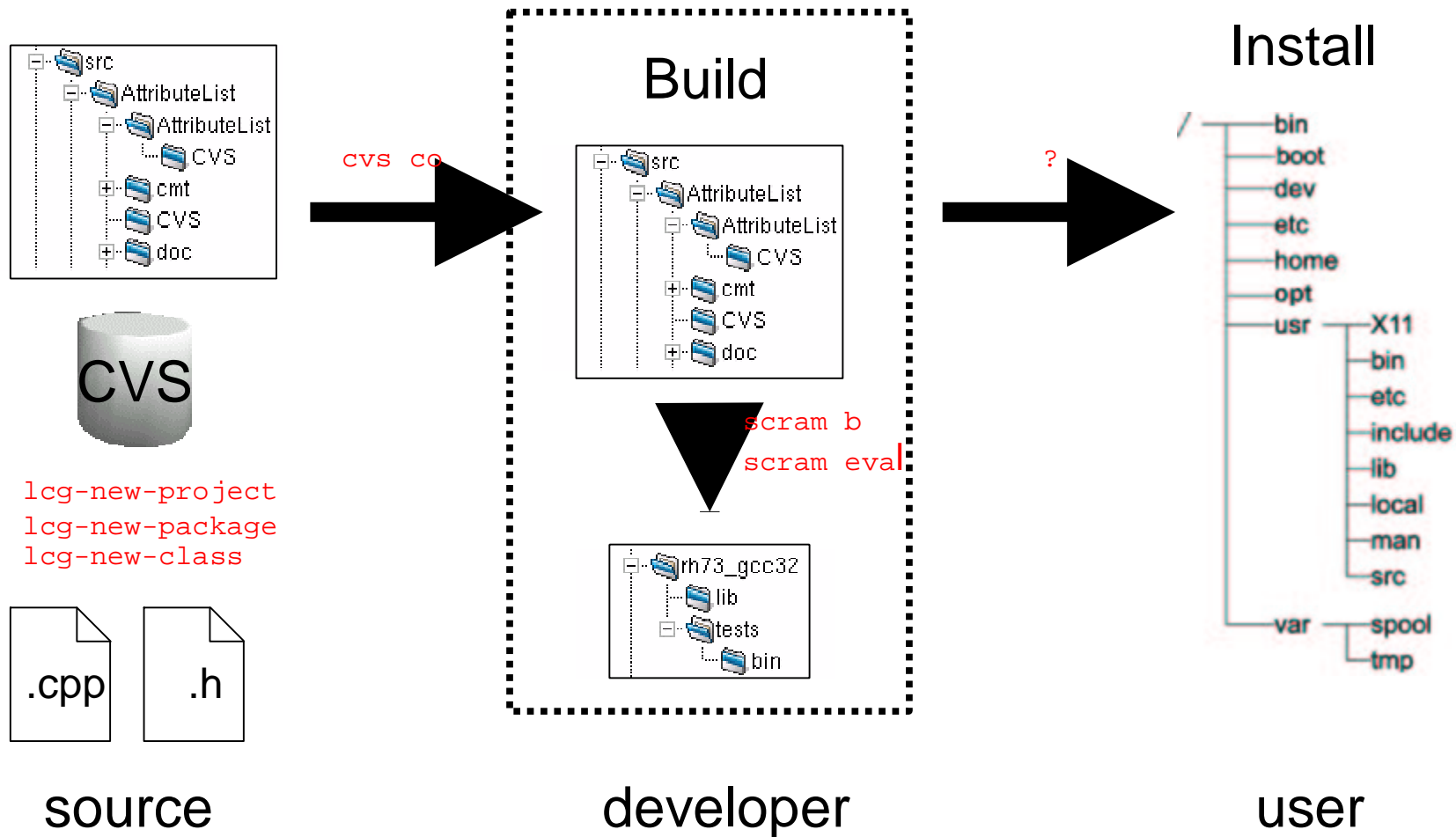
- uniform naming and structure of the LCG projects
  - **easy to understand** and use by humans
  - **scripts and automation** possible
  - shorter start-up time for newcomers
  - increased productivity for project members
- shared documentation and tools
  - **avoids redundancy** in projects
  - keeps the whole Application Area coherent
  - <http://spi.cern.ch/indexpage.html>



# Overview of development environment



common setup procedure



# SPDs in detail



LCG Computing Grid Project > LCG Applications Area > LCG Software Process & Infrastructure

## SPI - Software Process & Infrastructure for LCG

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<b>SPI Quick Links</b> <ul style="list-style-type: none"><li>SPI Home</li><li>SPI Index</li><li>Savannah Portal</li><li><b>LCG App. Area</b><ul style="list-style-type: none"><li>Home Page</li><li>LCG Agenda</li></ul></li><li>MATH Project</li><li>PI Project</li><li>POOL Project</li><li>SEAL Project</li><li>SPI Project</li></ul>	<b>Index Page</b> <ul style="list-style-type: none"><li><b>Infrastructure</b><ul style="list-style-type: none"><li><b>CVS Service</b> How to use the LCG CVS service</li><li><b>Project Portal</b> Projects Portal for LCG User registration</li><li><b>Software Library</b></li><li><b>LCG External Software service</b> How to install 3rd party software</li><li><b>Workbook</b> Workbook for LCG developers</li><li><b>SPI Templates</b> Work package doc (html) Presentation Test case description</li></ul></li><li><b>Software Development</b><ul style="list-style-type: none"><li><b>Policy and Tools Page</b><ul style="list-style-type: none"><li>Setting up environment</li><li>CVS Directory Policy</li><li>Build Directory Policy</li><li>FAQ</li></ul></li><li><b>SCRAM web site</b></li><li><b>Testing</b><ul style="list-style-type: none"><li><b>Software Testing in LCG App.Area</b></li><li><b>Coding conventions</b> Coding guidelines Design guidelines</li><li><b>Code documentation</b> Access to: doxygen   LXR   ViewCVS</li></ul></li></ul></li><li><b>App. Area Projects</b><ul style="list-style-type: none"><li><b>POOL Project</b> Home page   Project Portal   CVS repository   Bug reports   Mailing Lists</li><li><b>SEAL Project</b> Home page   CVS repository   Bug reports   Mailing Lists</li><li><b>PI Projects</b> Home page   CVS repository   Bug reports   Mailing Lists</li></ul></li><li><b>LCG Application Area</b> News   Overview   RTAGs Mailing lists   Mailing Lists Archives   Meetings Agenda   Planning   <b>Architecture Blueprint</b></li></ul>
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# Working out SDPs



- Working out and agreeing on SDP is:
  - difficult – nonetheless it is not Higgs research
  - takes time – weeks / months
  - consumes resources – people seem to love discussing it
- Our SDPs
  - are not perfect
  - but are a sensible compromise
  - but they **are already in place**



# SDPs in detail

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- Live demonstration of SDPs details and features in the Web.



# Summary

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- LCG/SPI provides Software Development Policies and Tools to support them
- It is in interest of every LCG Project to apply common Policies
- Some of the Policies may be improved but it is an achievement that they are already there and they should be applied
- **Please feed back on Policies to LCG/SPI**

