

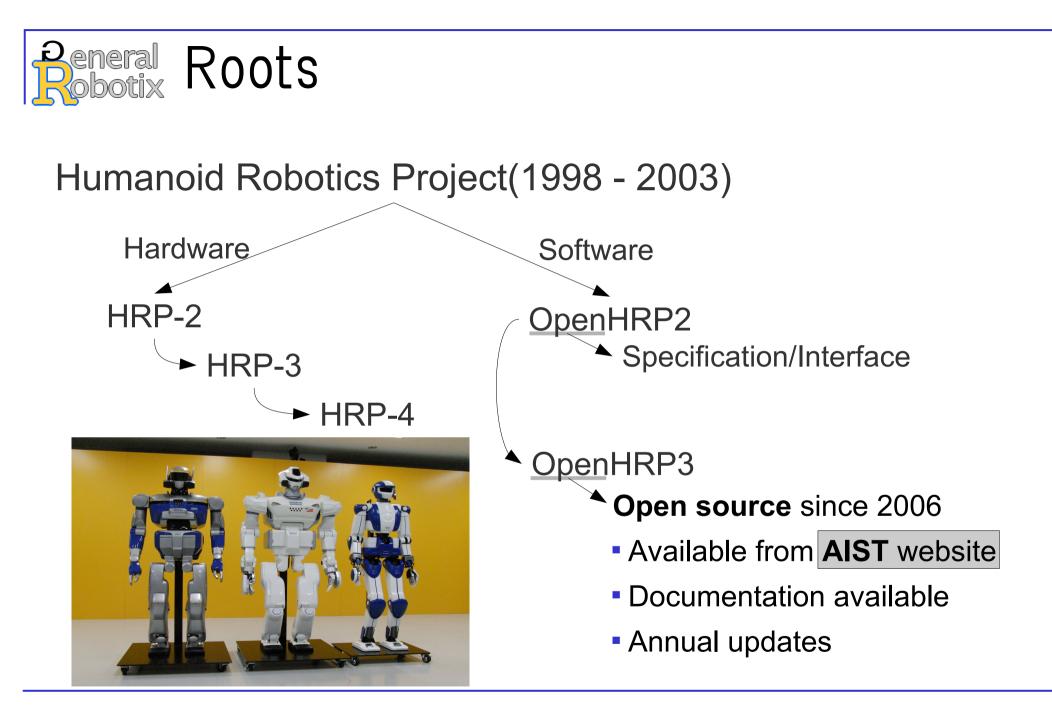
### OpenHRP Made More Accessible

#### Hajime Saito, Yuichiro Kawasumi, Kei Okada R&D, General Robotix, Inc. University of Tokyo

#### 2011/09/08 RSJ 2011, 2Q1 IS:Advances in Open-source Robotics Tools(1/2)



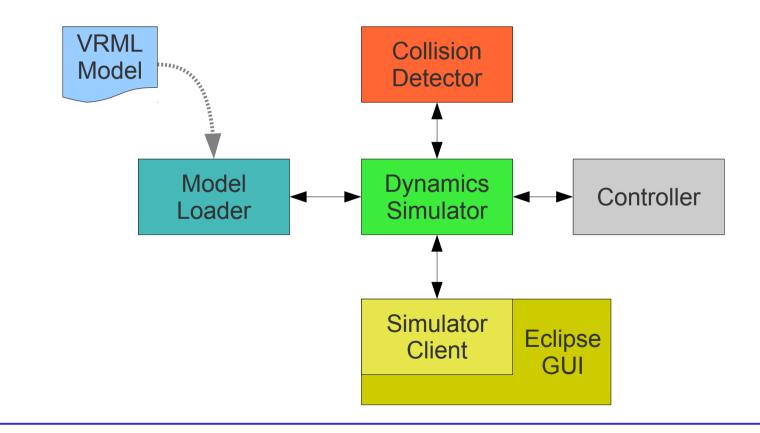
- Roots
- What's in it?
- What's to advance?
- Implemented Changes
- Actual Deployment
- Summary/Future Hopes





**Traditional Answer:** 

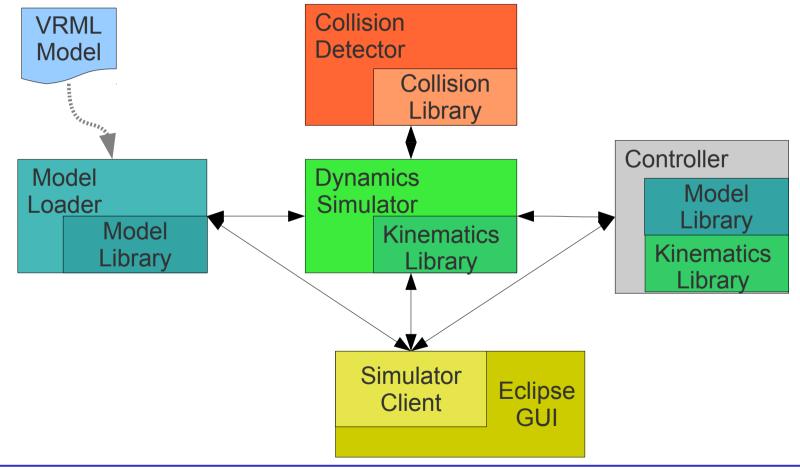
OpenHRP = Distributed Dynamic Robot Simulator





#### Alternative Use:

### OpenHRP = Software Component Base Libraries





- Annual Update
- Convergence based Inverse Kinematics(IK)
- Multiple data files
- Component based documentation

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- Access to RCS
- Analytic Solution

based IK

- Single data file
- Usage based documentation

Annual Update

### Access to RCS

OpenHRP version 3.1 + Changes hosted on: http://code.google.com/p/openhrp-aist-grx/

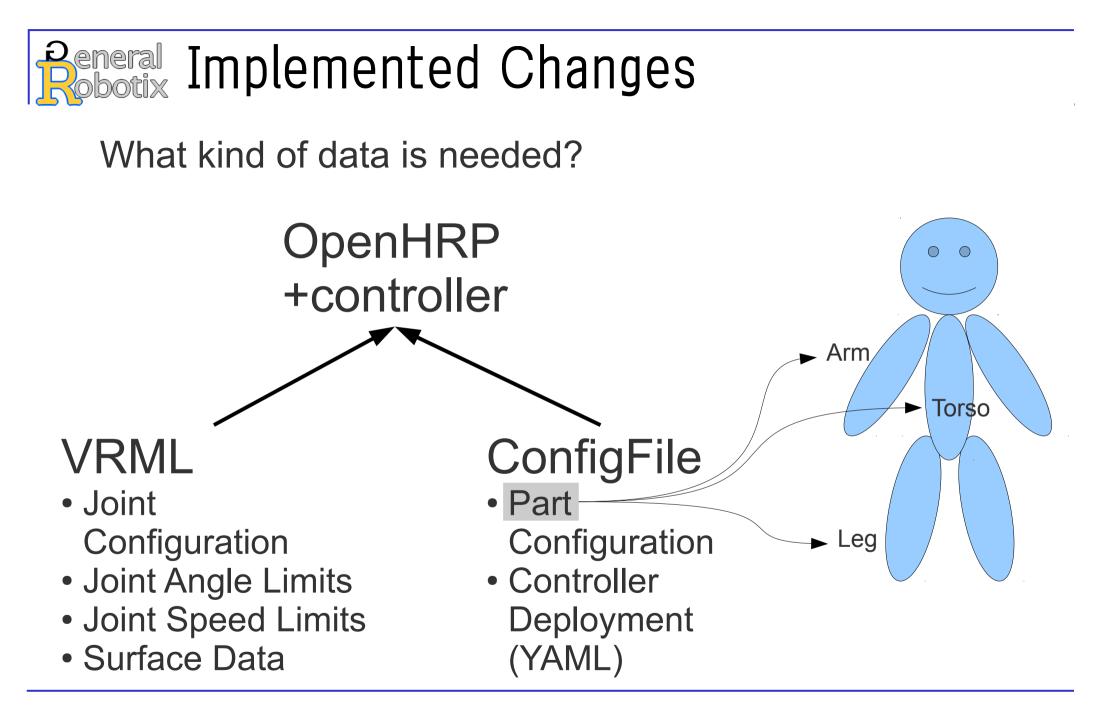
- Mu Includes:
  - Updates posted on mailing list
    - Collada support
    - To include
    - Updates to CORBA name handling
    - Python scripting interface

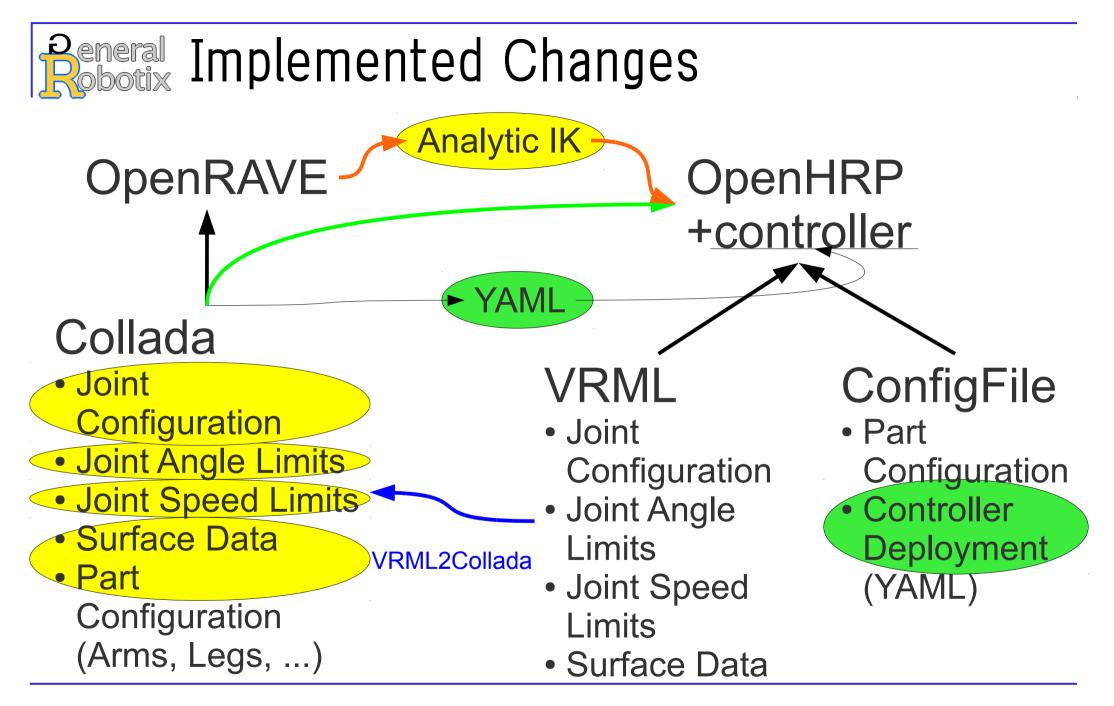
### Annual Update

- Convergence based Inverse Kinematics
- Multiple data files
- Component based documentation

### Access to RCS

- Analytic Solution
  - based IK (added)
- Single data file
- Usage based documentation





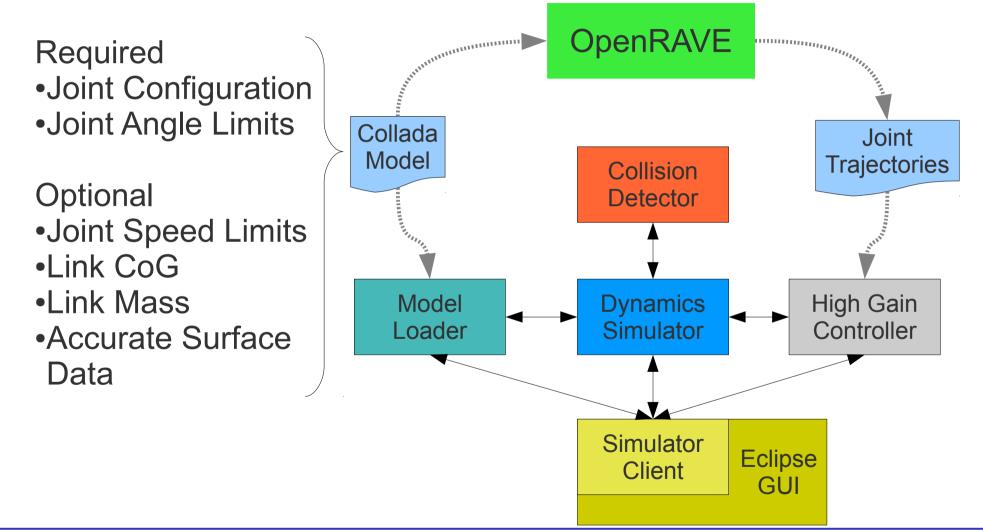
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## **Repertal** Actual Deployment (Minimum Requirements to Simulation)



# Reneral Summary/Future Hopes

- OpenHRP still moving forwards
- Ground work laid out to reach new developers
- Collaboration and Integration is Key
- Ecosystem of scripts for Collada+extensions
- Integration of other useful tools

Thank you for your attention