

# ATLAS ADC Cloud Computing Workshop

19 May 2011 @ CERN

# Overview





- ⊗ ATLAS Distributed Computing formed a Cloud Computing R&D Project. This is our kick-off workshop :
  - ⊗ Invited talks from inside and outside ATLAS
  - ⊗ Discuss use-cases, models and technical solutions
  - ⊗ Invite you to get involved in the project
- ⊗ Sign up to the project mailing list:
  - ⊗ [atlas-adc-cloudcomputing@cern.ch](mailto:atlas-adc-cloudcomputing@cern.ch)
  - ⊗ <https://e-groups.cern.ch/e-groups/Egroup.do?egroupName=atlas-adc-cloudcomputing>

# Project Goals

- ⊗ The primary goals of this R&D project are
  - ⊗ to **evaluate** the available cloud technologies in relation to the use-cases presented by *ATLAS data management, processing and analysis*
  - ⊗ to **design** a model for *transparently integrating cloud computing resources* with the ADC software and service stack
  - ⊗ to **implement** the ATLAS cloud computing model into *DDM, PanDA* and related tools and services
- ⊗ **We want to:**
  - ⊗ **leverage existing work**
  - ⊗ **find common solutions within WLCG and other close communities**

# Agenda

Thursday 19 May 2011

- 15:30 - 15:40    **Introduction 10'**  
Speakers: Kaushik De (UT-Arlington), Dan van der Ster (CERN), Dr. Rodney Walker (Ludwig-Maximilians-Universität München), Fernando Harald Barreiro Megino (CERN)
- 15:40 - 16:00    **CERNVM on the Cloud 20'**  
Speaker: Predrag Buncic (CERN)
- 16:00 - 16:20    **CloudCRV and 1-Click ATLAS Cluster on the Cloud 20'**  
Speaker: Mr. Yushu Yao (LBNL)  
Material: [Slides](#) 
- 16:20 - 16:30    **EC2 spot instance for ATLAS jobs 10'**  
Speaker: Valerie Hendrix (Lawrence Berkeley National Lab. (LBNL))  
Material: [Slides](#) 
- 16:30 - 16:50    **CERN's Internal Cloud Infrastructure - Design and Status 20'**  
Speaker: Ulrich Schwickerath
- 16:50 - 17:10    **EC2 Panda Experience 20'**  
Speaker: Sergey Panitkin (Department of Physics - Brookhaven National Laboratory (BNL))
- 17:10 - 17:30    **Cloud Computing in CMS 20'**  
Speaker: Ian Fisk (Fermi National Accelerator Laboratory (FNAL))
- 17:30 - 17:50    **BaBar Simulation and Data Analysis in a Distributed Cloud 20'**  
Speakers: Dr. Randall Sobie (Univeristy of Victoria), Ian Gable (University of Victoria)  
Material: [Slides](#)  
- 17:50 - 18:20    **Discussion 30'**