Crowdsourcing and Al CUI, spring 2022 Lecture 1

Jose Luis Fernandez Marquez and François Grey Citizen Cyberlab UNIGE + UNITAR + CERN

Prologue



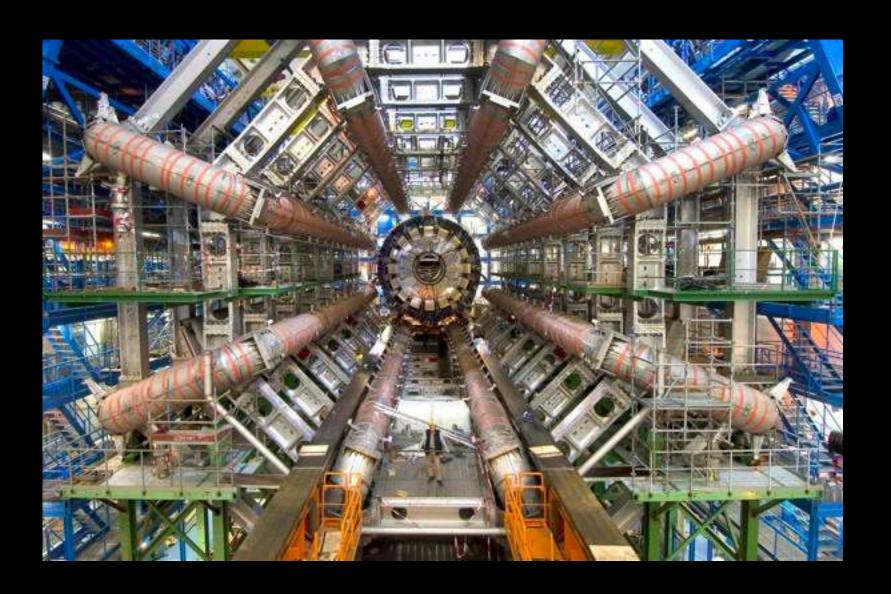


Lecturer Background

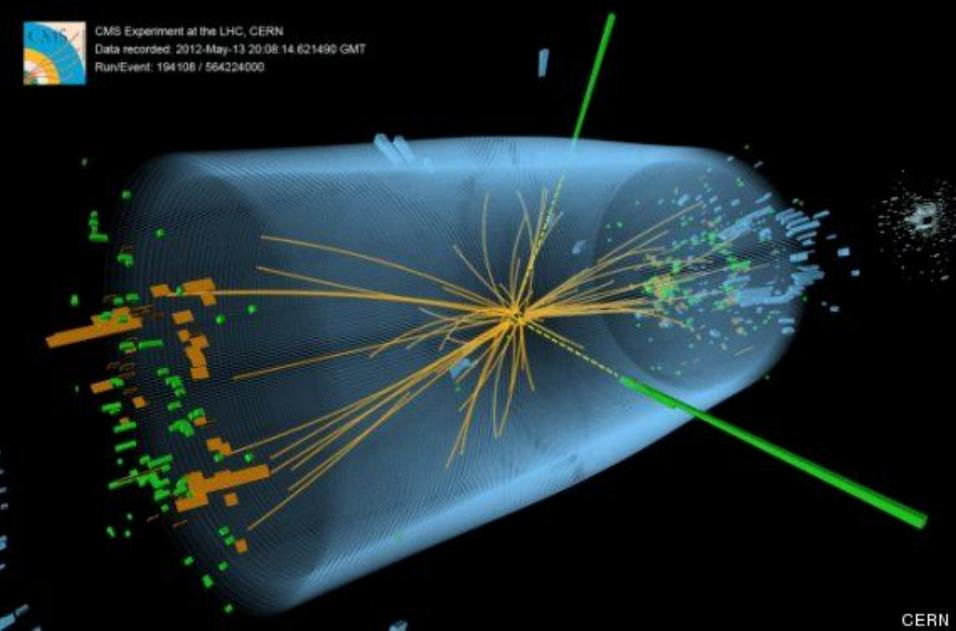
CERN



The ATLAS Detector



The Higgs Boson



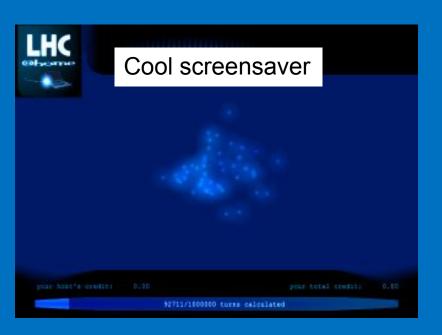
1999: SETI@home



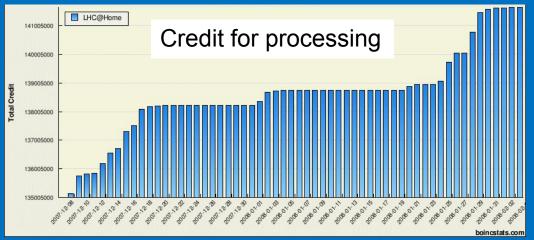
2004: LHC@home "Sixtrack" built on BOINC



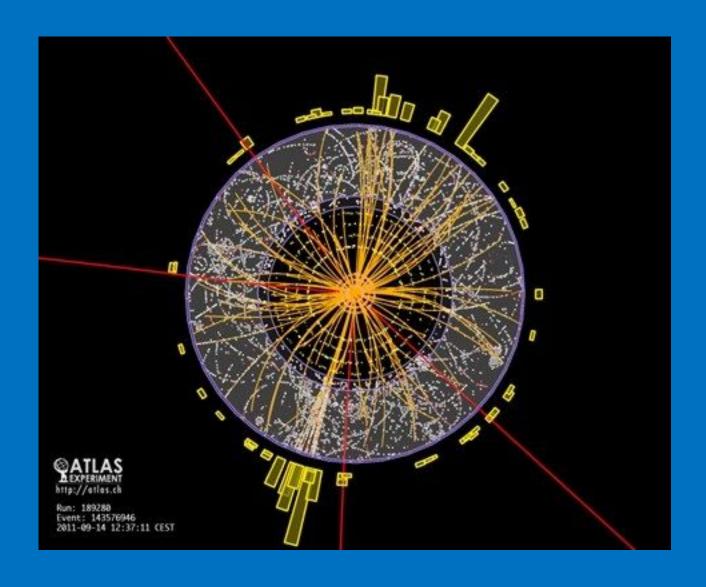
Why did volunteers participate?



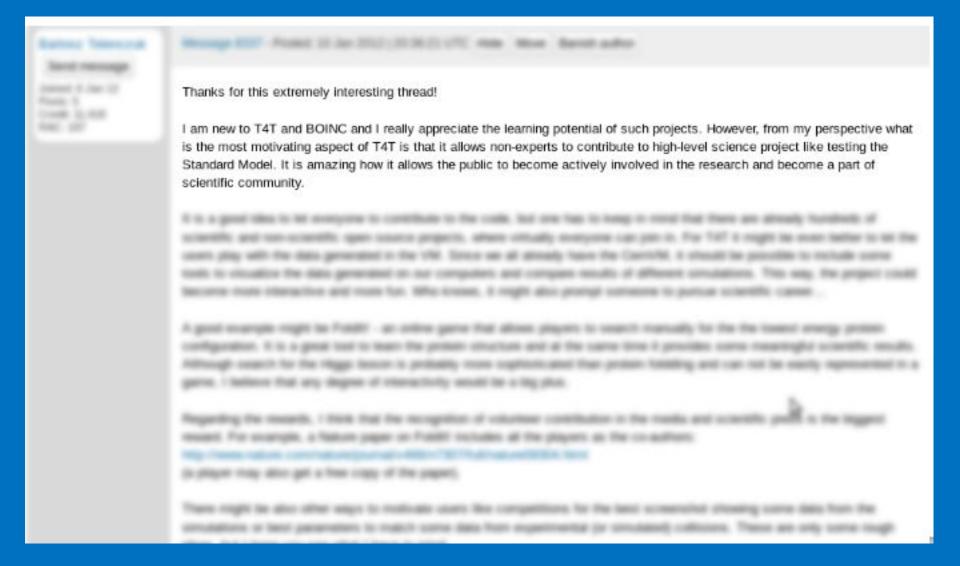




2011: LHC@home "Test4Theory"



Comment by a volunteer



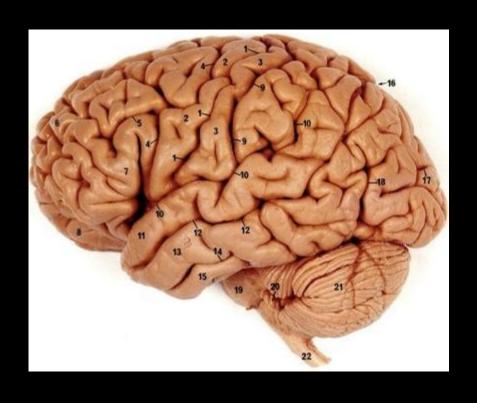
Technological Context

Crowdsourcing for Science

The largest scientific resource on the planet?







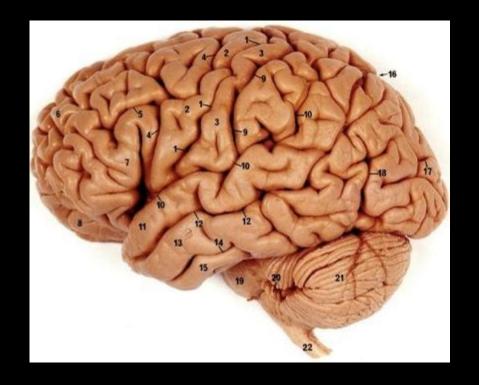
2bn 5bn 7bn

Crowdsourcing for Science:

A range of approaches







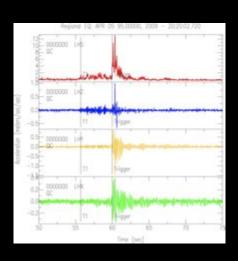
Volunteer Computing

Volunteer Sensing

Volunteer Thinking

Quake Catcher Network: volunteer seismic detection







Epicollect: volunteer epidemiological data



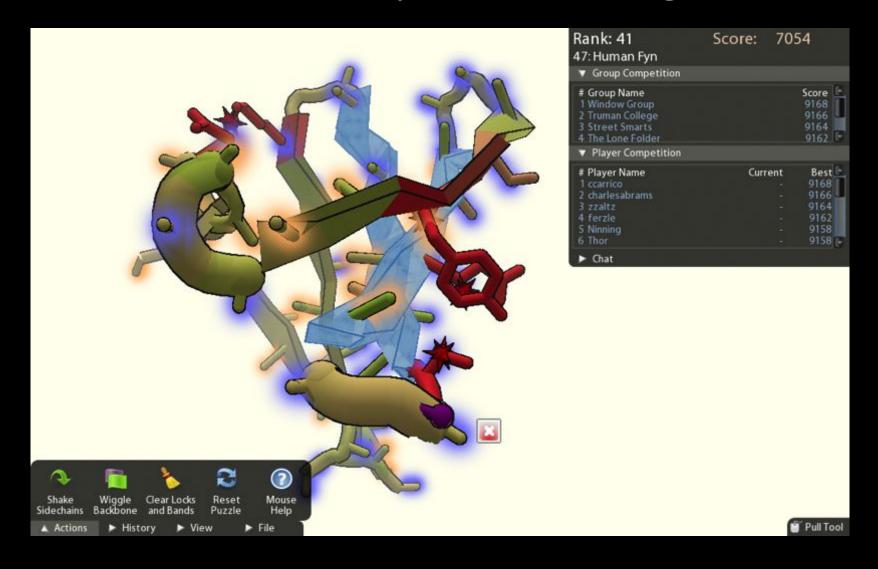




GalaxyZoo: Volunteer galaxy classification part of Zooniverse



Foldit: volunteer protein folding



Institutional Context



University of Geneva UN Institute for Training and Research European Organization for Nuclear Research

"Rethinking Public Participation"