



# ATLAS IN A SUITCASE

*A lightweight contribution to ATLAS-wide activities !*



Detector pieces all come with a story  
Scientists all have stories  
The public loves stories ...

How can the 3 meet ?

The initial "Peter Jenni Legacy Collection" of ATLAS pieces was augmented by gifts or long term loans by subsystem experts. Colourful events & photos were combined on roll up posters. At events VR is used to add an immersive feeling of the ATLAS size.

The global narrative can be adapted to highlight:

- Local institute contributions
- Data flow, from LHC collisions to physics
- Guides personal preferences, paths and anecdotes

Next step (science communication intern S. Leach):  
Interviews & methodology



From LHC collisions to physics



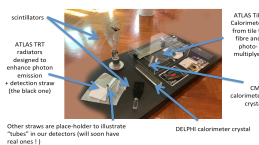
The LHC at CERN: magnets, cavities and caverns



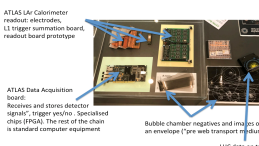
Are detectors cameras ? Silicon Tracking Detectors



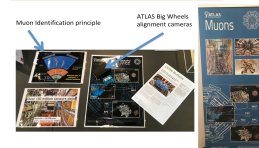
Particles interaction with material: HEP know-how to make use of light emission & detection



Data ? From bubble chamber negatives to electronics & computers



Making sense out of all these numbers: the ATLAS big wheels alignment example



Software & computing: "connecting the dots" is a worldwide endeavour



Looking into the future: LHC HL upgrade, a challenge for the Trigger



Physics !



Claire Adam-Bourdarios, with the help of many ATLAS project leaders and R.M.Bianchi (VP1 for outreach posters design). Photos were taken in Croatia (LHCDays 2018) and Bulgaria (CHEP 2018).

