ATLAS Tracer

Introduction

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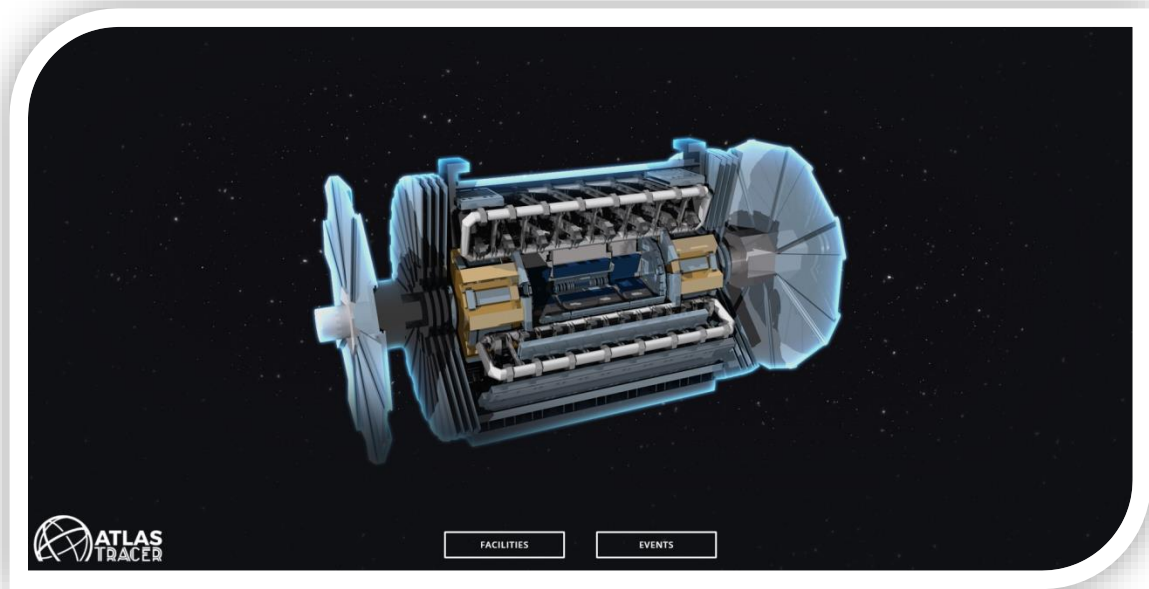Georgian Engineering Team

It's a...

New Project

for

Georgian Engineering Team

Web app

Suitable for all type of hardware and software platforms.
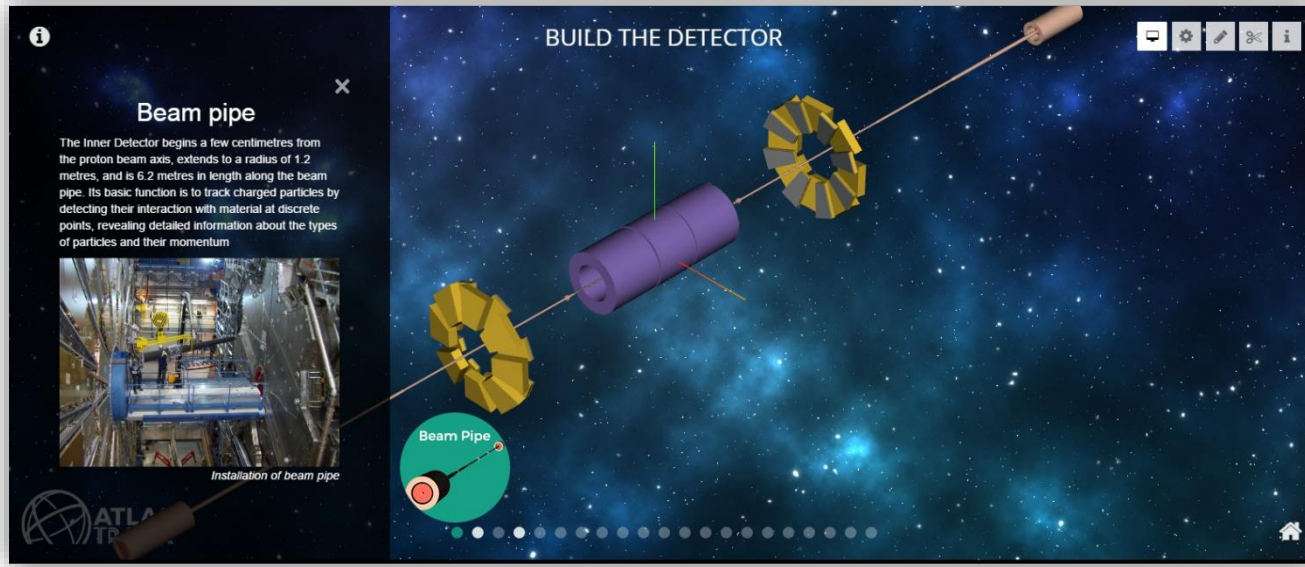
Click-and-go

Interactive

Learning tool for ATLAS Detector
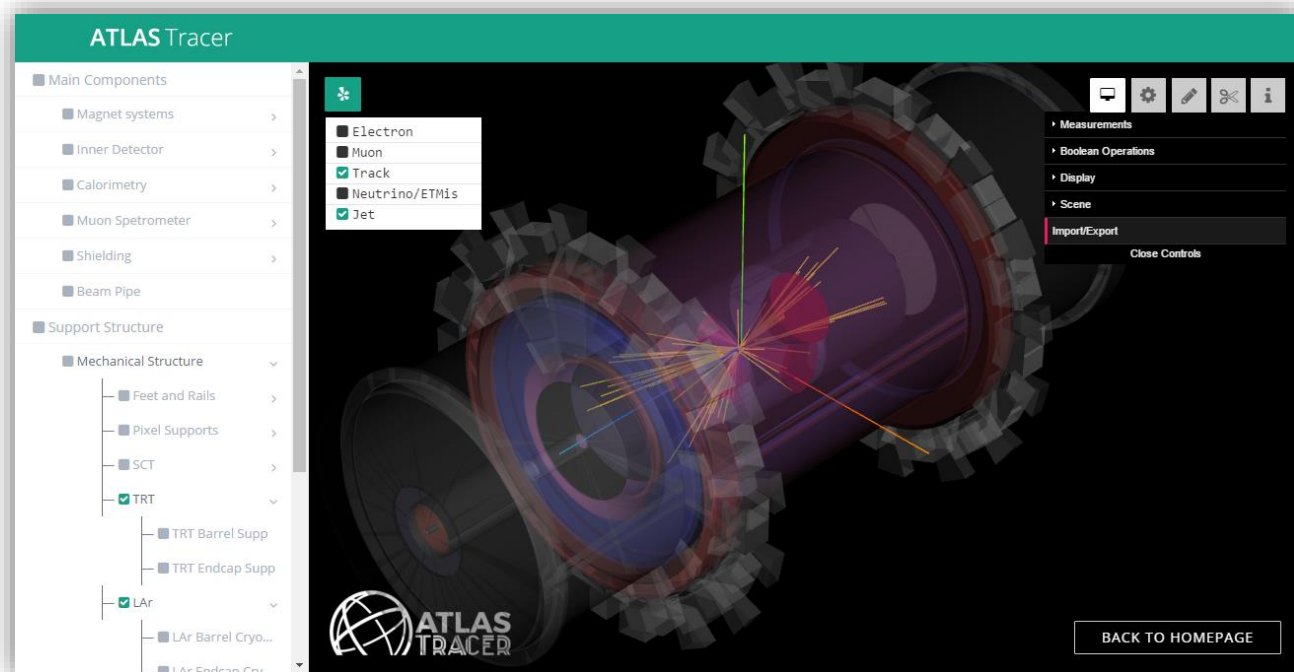
Event Display

Geometry representation

Facilities

- Learn detector deeply component-by-component
- Decomposition of full detector into several functional and visual items
- Get full set of information about selected detector components like physical purpose, material or mass properties; mechanical engineering data; manufacturing and installation history, photo and video materials, etc.
- Detailed as-built geometry representation of ATLAS detector
- Realistic rendering, zooming, rotation, movement, fly mode, cuts and measurements. So users can work like in professional CAD applications

Event Display

- Users can construct different architectures of detector and visualize user specific events on that architecture
- Events interaction with detector components
- Get all the information about selected elements from choosen event

Implementation

ATLAS Tracer can be used:

▪ As an outreach tool for universities, schools and all interested individuals

▪ As an event display – provide visualisation of users specific XML data for better understanding of events interaction with detector components

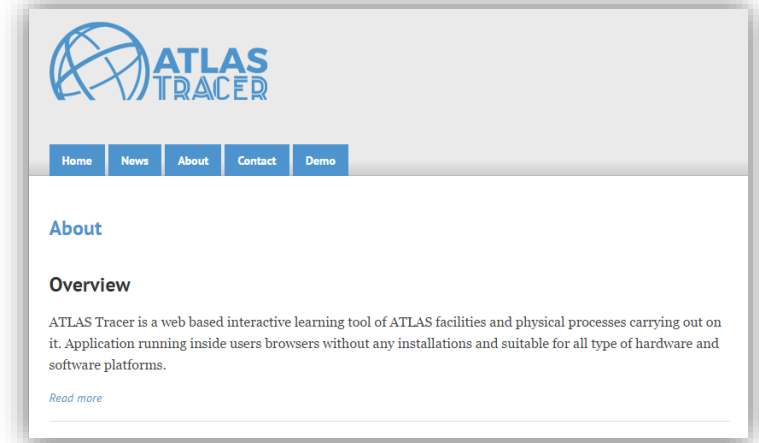▪ As an educational platform for tutorials and learning courses.

Where we are at now

Demo version of ATLAS Tracer:

http://cadcamge.ch/atlas-tracer-demo

Web site of ATLAS Tracer:

https://atlas-tracer.web.cern.ch

PLANS

Web Application is developing by 3 groups from Nuclear Engineering Centre of Georgian Technical University:

1) Developers
2) CATIA designers
3) Interface designers

LOTS OF IDEAS

We want to make it USEFUL, EASY TO USE and COOL

Thanks!