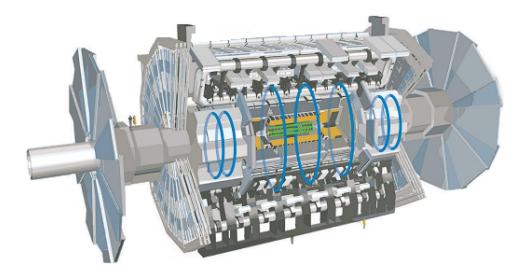
AR BOOK

Augmented reality ATLAS fact sheet extension



Development stage presentation

Draft presentation with QR code scanner

ATLAS-GTU TAI Agreement Workshop





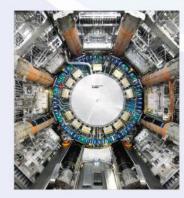
https://indico.cern.ch/event/1293788/

Georgian Team: Vladimir Dolinski Responsible: Alexander Sharmazanashvili

ATLAS Outreach Weekly 7 June 2023

PROJECT HIGHLIGHT

DETECTOR OVERVIEW Tile LAr Hadronic Toroid Calorimeter **End-cap and Forward** Muon Magnets Calorimeters Spectrometer Pixel Detector Electromagnetic Calorimeter Solenoid Transition Semiconductor Magnet Radiation Tracker Tracker



ATLAS is the largest detector ever constructed for a particle collider: 46 metres long and 25 metres in diameter. Its construction pushed the limits of existing technology.

ATLAS is designed to record the billions of high-energy proton or ion collisions at the LHC. New particles fly out from the collision point in all directions and interact with the different ATLAS sub-detectors.

Each sub-detector makes up a different layer of the detector and plays a unique role. More than 100 million sensitive electronics channels are used to record the particles produced by the collisions, which are then analysed by ATLAS scientists to identify and reconstruct individual particles.

ATLAS ividual



AGENDA



Introduction

Project basis



Project main functions



- **Draft presentation**
- 5 QA

INTRODUCTION

GOALS

💶 Who am I

2 Goal of AR Book

- **1.** Be extension of numerous Fact Sheets and not only
- 2. Be easy accessible from browser

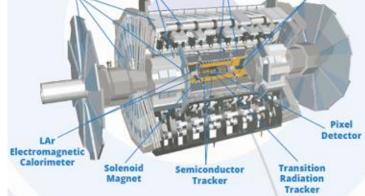
3 Projects

3. Be informative



PROJECT BASIS





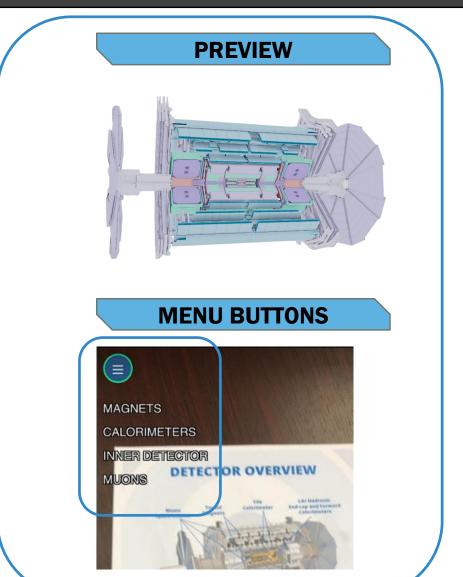
We need to show:

The geometry of Detector Subsystems

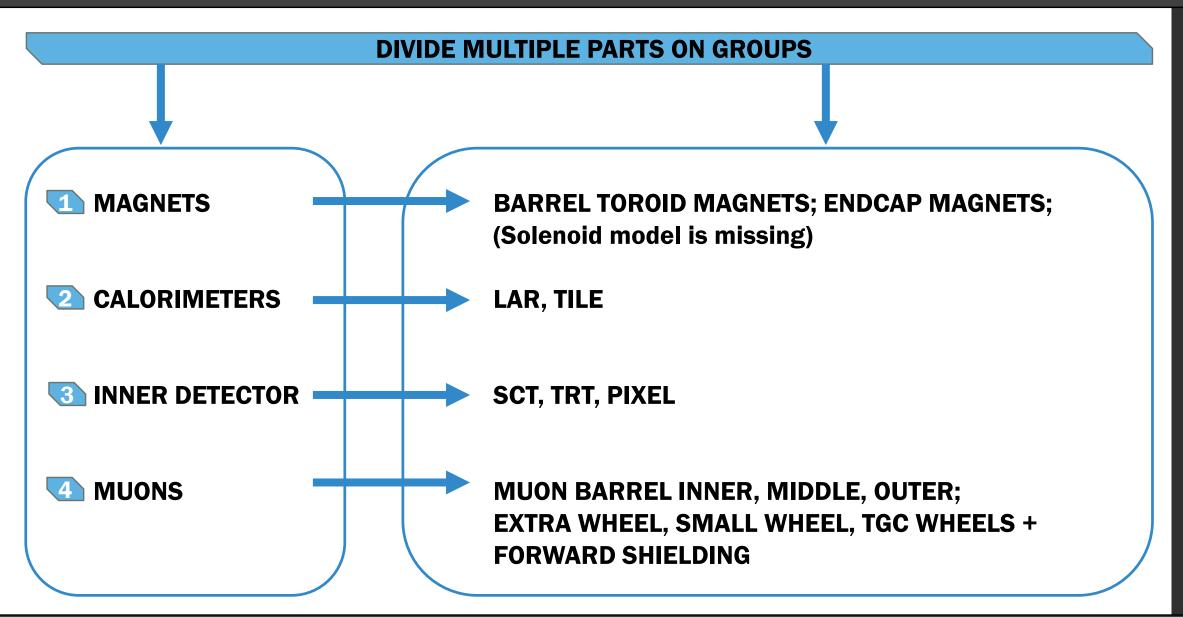
2 Menu

AR APP of Detector Overview contains MENU button with 4 main groups with multiple

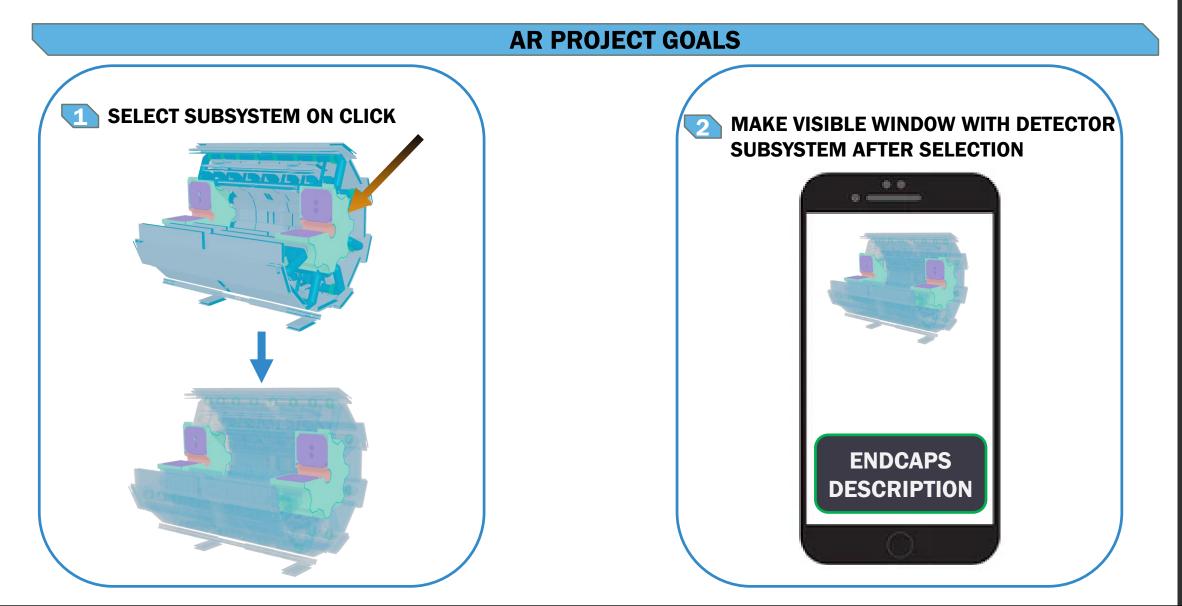
geometries to be able select them separately.



PROJECT BASIS

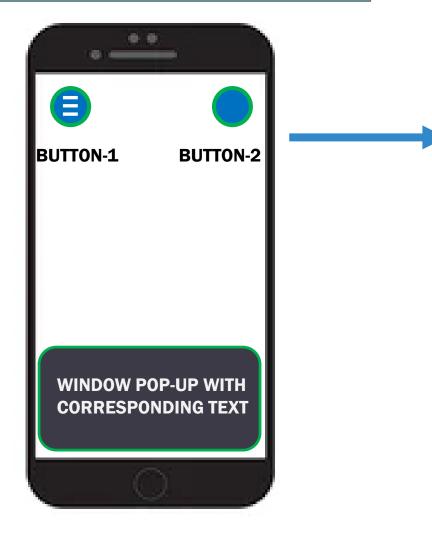


PROJECT BASIS



PROJECT MAIN FUNCTIONS

BUTTON-BOUND FUNCTIONS

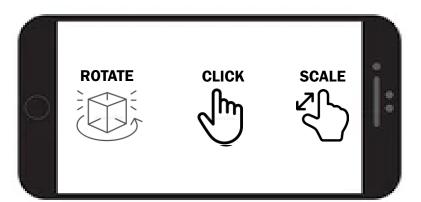


TWO MAIN BUTTONS

BUTTON-1 IS MENU BUTTON WHICH HAS GEOMETRY SHOW/HIDE FUNCTION, TO NOT BLOCK VIEW; &FULLSCREEN ENABLE(works in chrome, wip)

BUTTON-2 HAS 'CLICK FUNCTION' ENABLE/DISABLE(wip)

GESTURE CONTROL FUNCTIONS



PROJECT MAIN FUNCTIONS

PREVIEW







GEOMETRY SELECTION

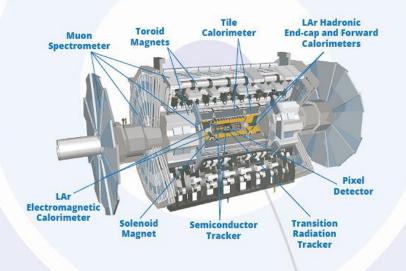


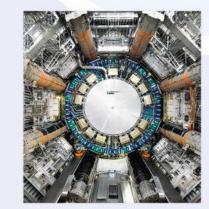
CLICKING ON GEOMETRY

DRAFT PRESENTATION

QR Code

DETECTOR OVERVIEW





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END OF PRESENTATION

THANK YOU

Comments are Welcome

vladimir.dolinski@cern.ch

