ATLAS Public Web Pages

# Evolution to Drupal 8

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# ATLAS Public Web Site

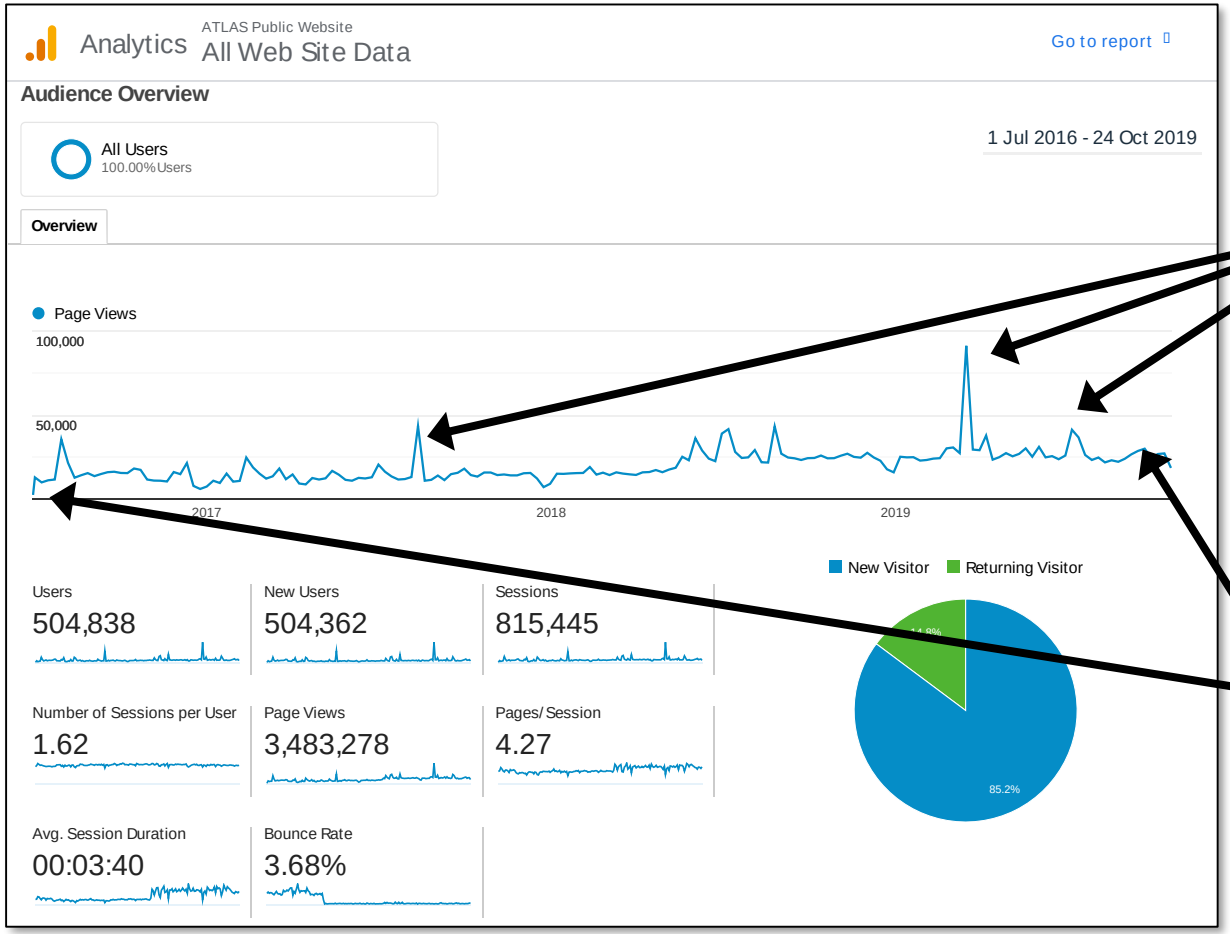
http://atlas.cern

## Public access to

- Descriptions of Experiment
- Educational Resources
- Updates (News, Briefings, Blog, etc.)

## In Drupal since March, 2016

- Replaced original html site
- Developed in Drupal 7
- Maintained by ATLAS Communication Team




Spikes correspond to publications, events

Steady growth over 3+ years (now around 30k views/week)

# Migration to Drupal 8

## Motivation

- Drupal is an Open Source Content Management System (CMS)
  - Selected for security, management of large sites
- CERN supports Drupal 7 until **mid-2020**
  - CERN guarantees support for Drupal 8
- Opportunity to Improve ATLAS Public Site
  - **More dynamic** look & feel
  - Better, automatic **portability between screen sizes**

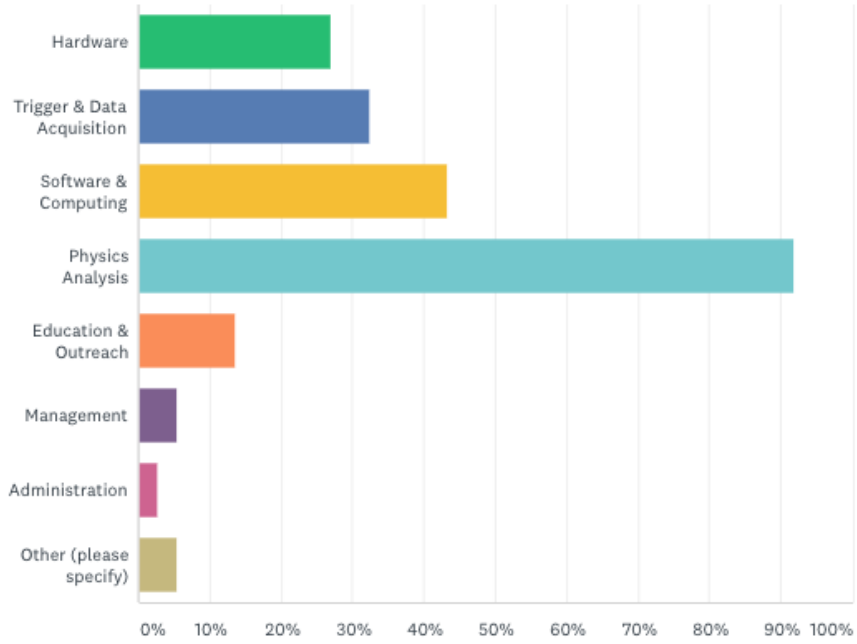
## Technicalities

- Migration not automatic
  - Change of template language from **php** to **twig**
  - Original ATLAS designers used **short codes in ATLAS theme**
- Opportunity to improve maintainability
  - Decrease ATLAS-specific code
  - Simplify future migrations

# Extracts from Collaboration Poll

What are your areas of work in the collaboration? (check all that apply)

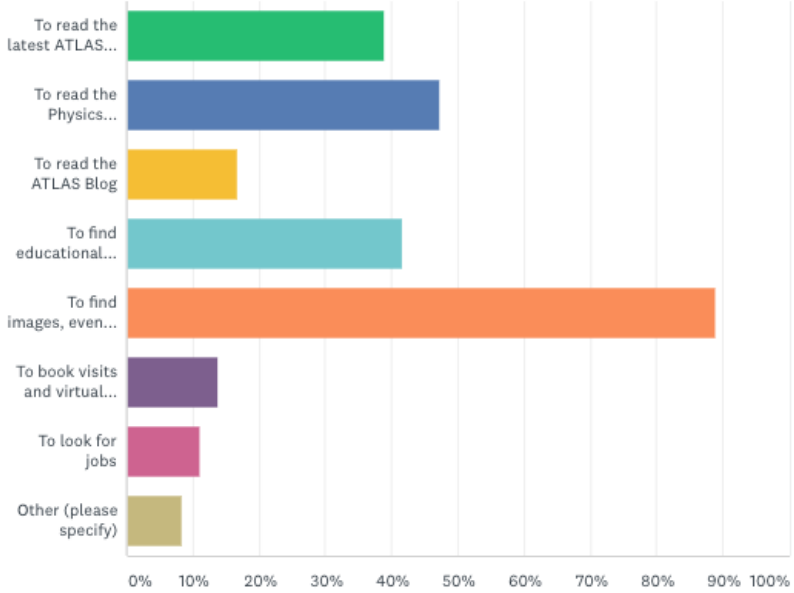
Answered: 37 Skipped: 0



# Extracts from Collaboration Poll

Why do you visit the ATLAS Public Web Site? (check all that apply)

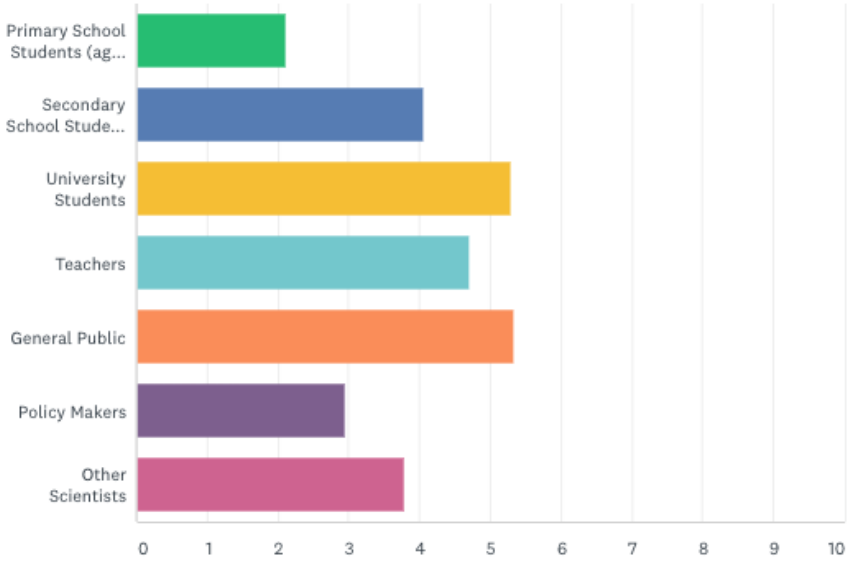
Answered: 36 Skipped: 1



# Extracts from Collaboration Poll

How would you prioritise the audiences of the ATLAS Public Web Site?

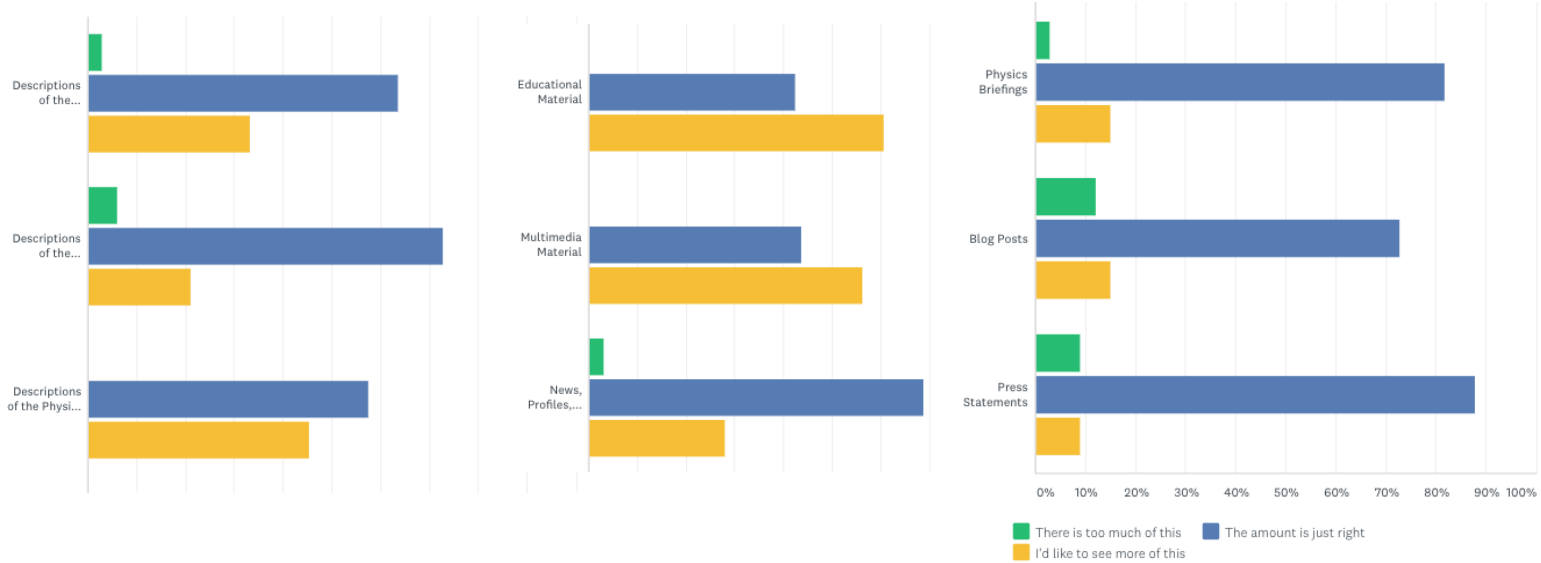
Answered: 36 Skipped: 1



# Extracts from Collaboration Poll

How much of the following content do you expect on the ATLAS Public Web Site?

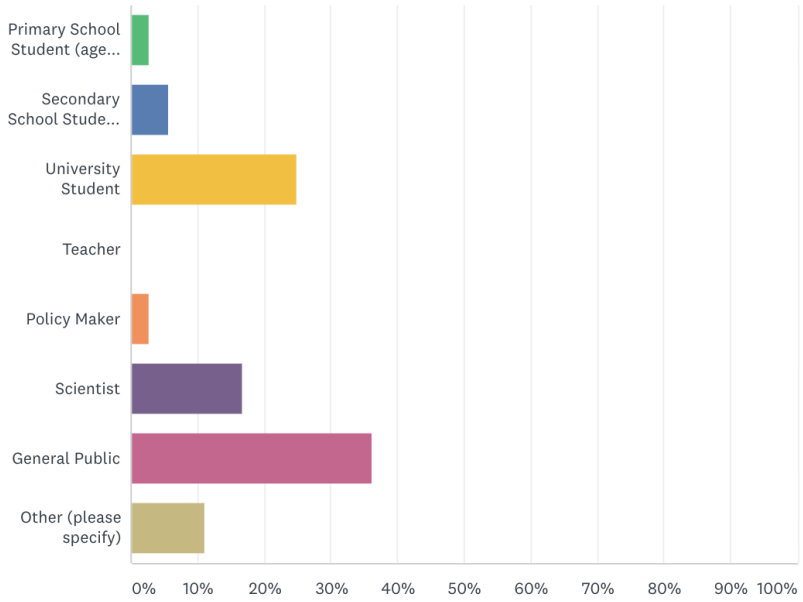
Answered: 34 Skipped: 3



# Extracts from Public Poll

## Who are you?

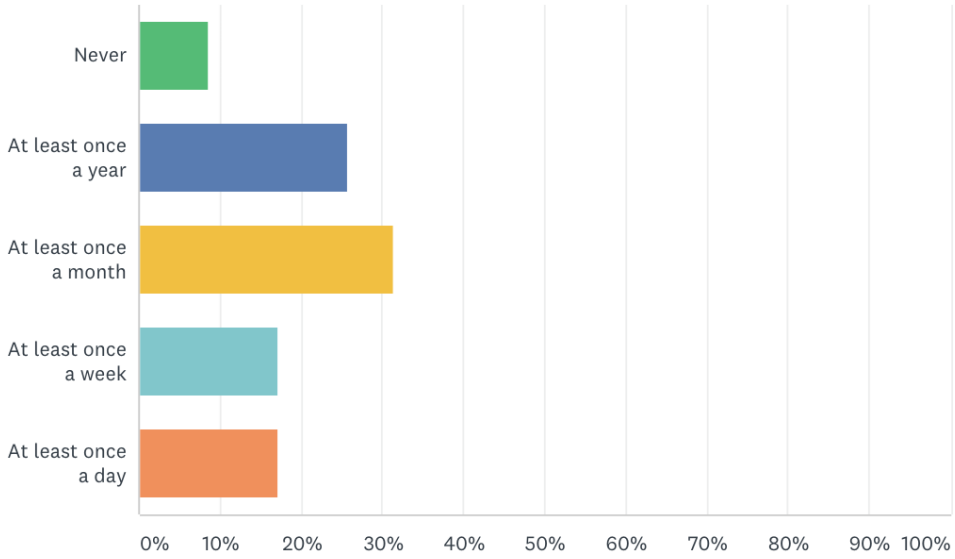
Answered: 36 Skipped: 0



# Extracts from Public Poll

## How often do you visit the ATLAS Public Website?

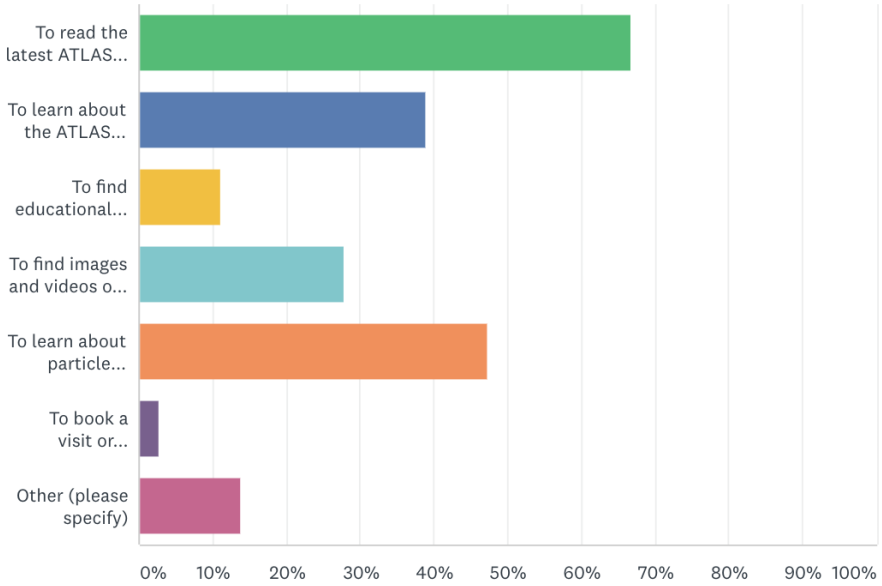
Answered: 35 Skipped: 1



# Extracts from Public Poll

## Why do you visit the ATLAS Public Website?

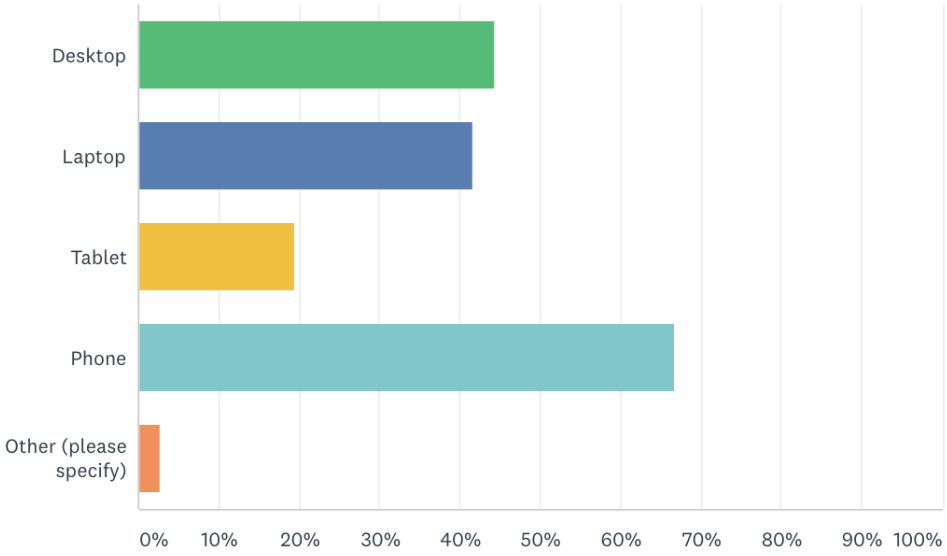
Answered: 36 Skipped: 0



# Extracts from Public Poll

## How do you access the ATLAS Public Website? (check all that apply)

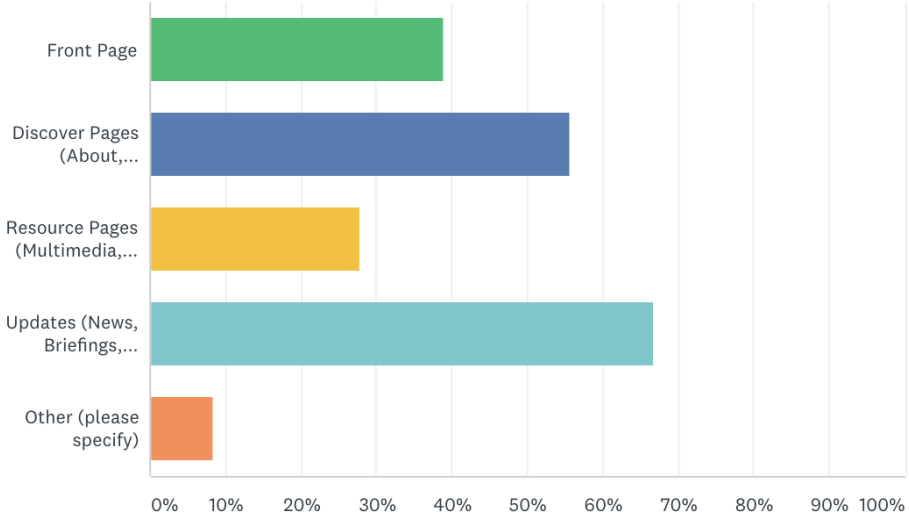
Answered: 36 Skipped: 0



# Extracts from Public Poll

What areas of the ATLAS Public Website do you typically visit? (check all that apply)

Answered: 36 Skipped: 0



# Quick Summary of Poll Input

## The Collaboration

- Comes to public site for Material, News
- Expect a broad range of audiences
- Want more educational material

## The Public

- Identify as General Public, University Students, Scientists
- Visit fairly frequently
- Want the latest News and to learn about ATLAS & Particle Physics
- Uses a variety of screens

## In General

- Statistics limited, but matches data from polls of 4 years ago
- Our structure (Description, Educational Material, Updates) remains valid

# Migration Wish List

## Upgrade Infrastructure

- Rebuild ATLAS site in Drupal 8
  - Content Types, Views, Blocks, Style, Tools, Content
- Use “CERN Override” theme instead of “ATLAS” theme
  - Remove specialised templates

## Improve Design

- Follow current trends
  - Dynamic, responsive content (all screen sizes)
  - More scrolling, easy to use menus, no hovering
- Better usability for content developers
  - **Easier Layout Capability**

## Automated Large-Scale Migration of Content

# The Challenge

## Content Types

- **Current**: Glossary Term (22), Home Page (2), Job Posting (400+), Multimedia Page (1), Page (40), Update (400+), Webform (2)
- **Drupal 8**: Glossary Term, Home Page, Job Posting, Landing Page, Update Virtual Visit, Webform

## Views

- **Current**: Author Profiles, Updates, Blog, Briefings, Features, News, Portraits, Profiles, Press Statements, Updates Side Bars, All Updates pages, RSS Feeds, Glossary, Jobs, Discover, Resources pages
- **Drupal 8**: Author Profiles, Updates, Blog, Briefings, Features, News, Portraits, Profiles, Press Statements, Glossary, Jobs, Virtual Visits

## Totals

- More than **1000 pages of content** and a few dozen new landing pages and views

# Where Are We, Now?

## Design

- ATLAS Visual Identity Implemented in CERN Override
  - Colour Palette, Logo, Favicon, Fonts (no, not **comic sans**, but **open sans**)
- Regions & Blocks Similar to Drupal 7 site
  - Forced to redefine footer, but not an issue

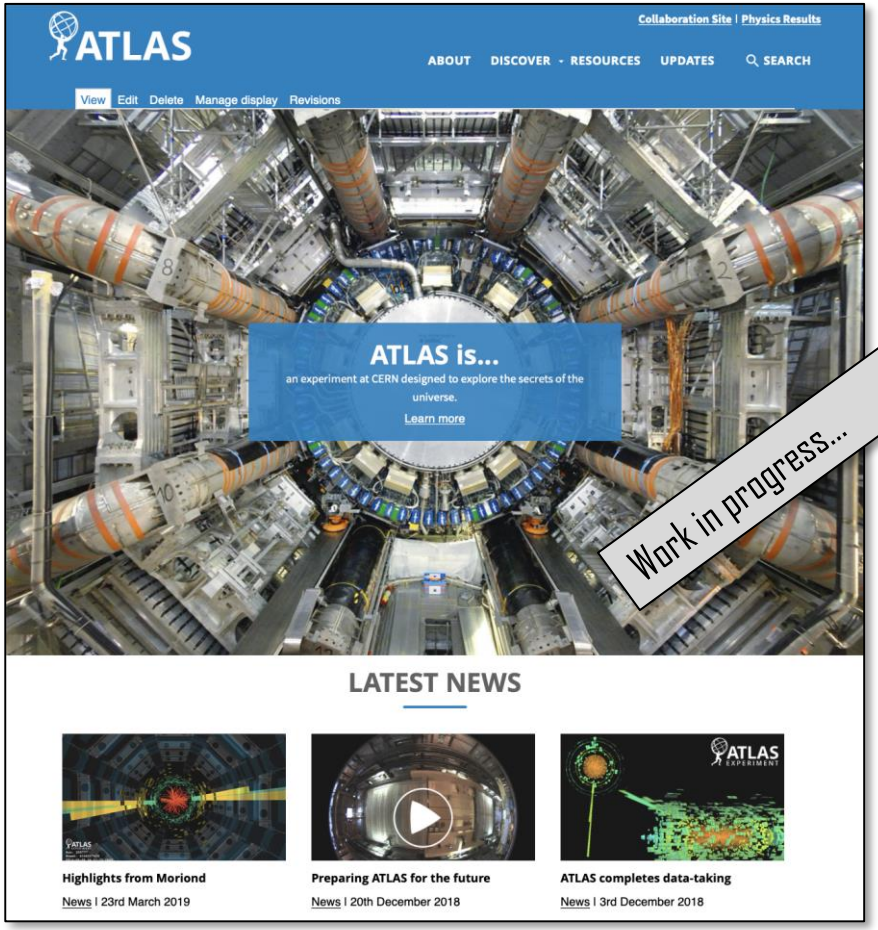
Which ATLAS used FIRST!!!

## Content Types

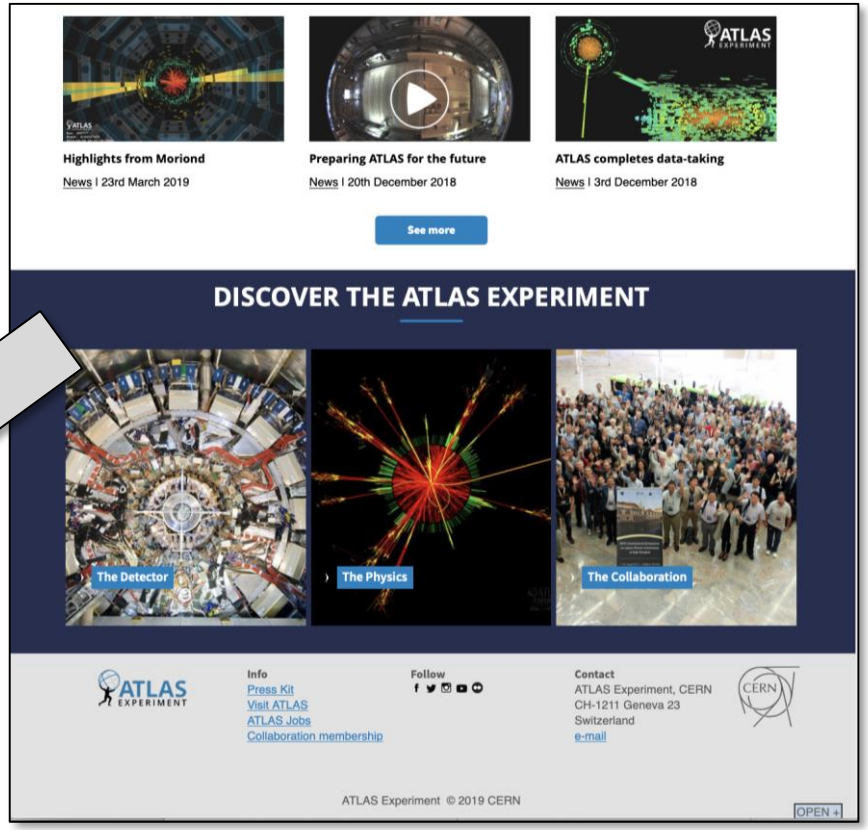
- Using Landing Page as is, others redefined, as in Drupal 7
- Being tested and refined (**77 nodes**, so far)

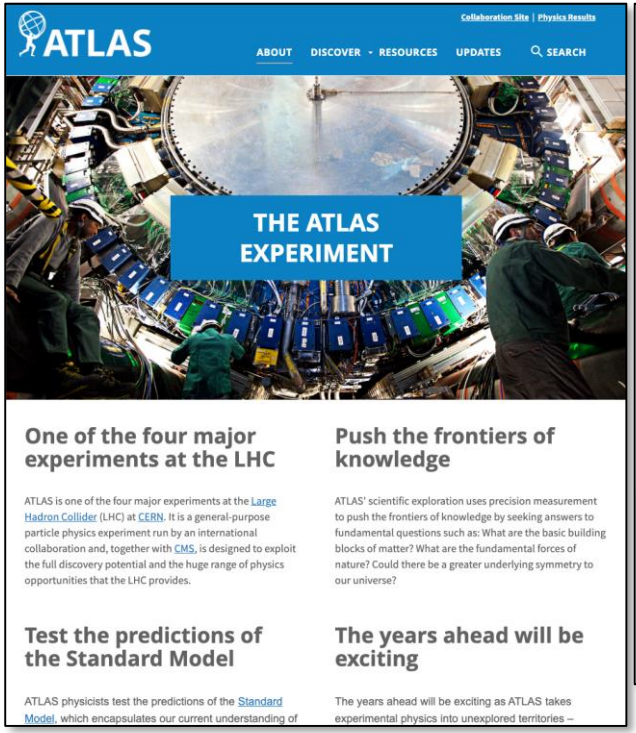
## Views

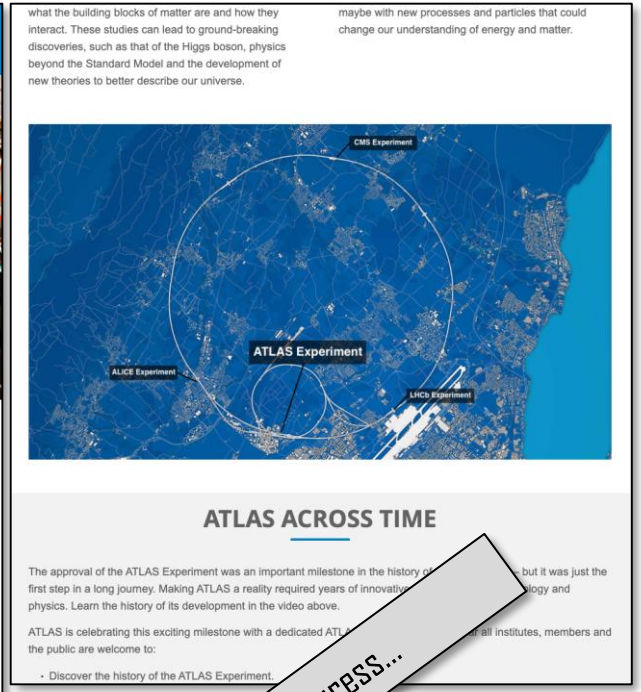
- Re-defined as in Drupal 7
- Being tested and refined



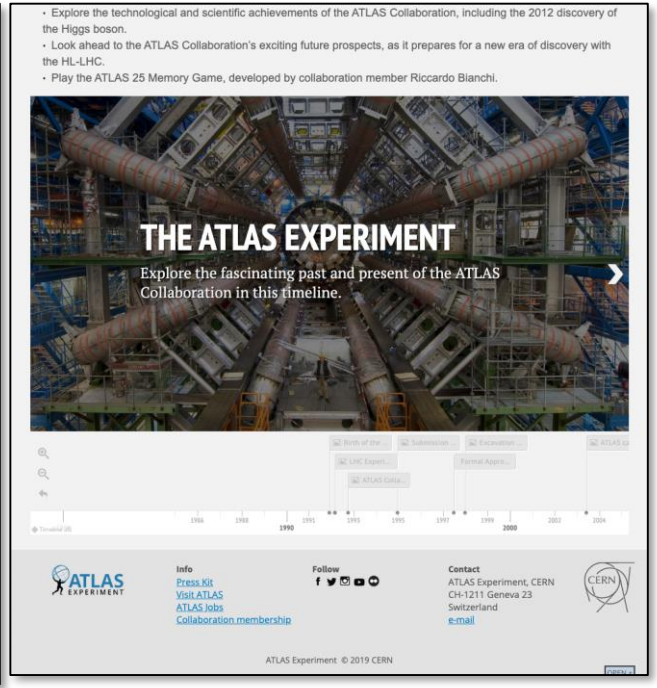

Work in progress...

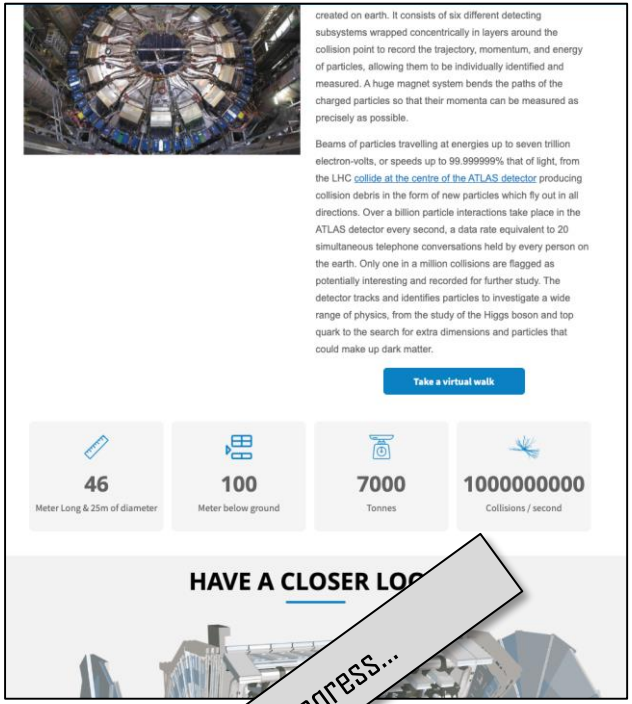





Work in progress...





Work in progress...

# What Remains

## Development

- Completion of Landing Pages for Physics, Resources, etc.
  - Adjusting style of cards and other elements
- Completion of Example Updates pages with quality layout
  - **Simplification of interface for writer**

## Content

- Automatic porting of high-quantity Content Types
  - Updates, Job Postings, Virtual Visits
- Refinement of the automatically ported content

## Design

- Modification of elements, like cards, to our own ATLAS style (see images of home page, e.g.)

# Development Issues

## Landing Pages

- Flexible, but not trivial for writer to work with
- For example, lack of clone feature for elements is a show-slower

## Updates (News, Briefings, etc.)

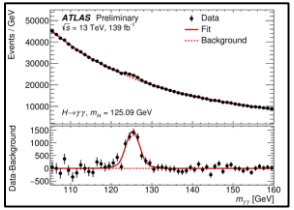
- Article Content Type insufficient for creating quality content visually
  - Editing source to add Bootstrap classes by hand!
- We need to be able to lay out an article professionally
  - My writer keeps begging me for WordPress
  - Hasn’t anyone come up with a similar environment for Drupal? Why not?

## Short Codes

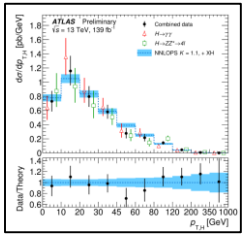
- In Drupal 7, we defined short codes, like [img right 50%] or [span1of3]
- Perhaps this can be handled in the WYSIWYG?

# Layout images side-by-side (Drupal 7 ATLAS theme)

```
[span1of2]
[img]
```




```
[/img]
[/span1of2]
[span1of2 last]
[img]
```




```
[/img]
[/span1of2]
```

physicists to measure kinematic properties of the Higgs boson with unprecedented precision (Figure 3). These are sensitive to new physics processes, making their exploration of particular interest to the collaboration.

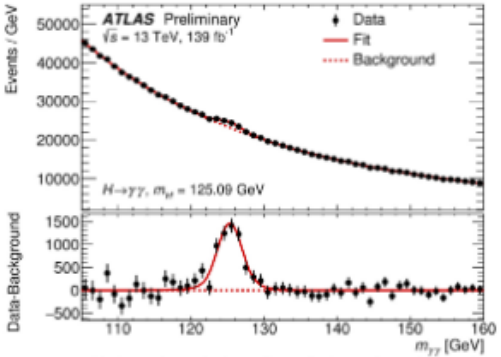



Figure 2: Distribution of the invariant mass of the two photons in the ATLAS measurement of H→γγ using the full Run-2 dataset. The Higgs boson corresponds to the excess of events observed at 125 GeV with respect to the non-resonant background (dashed line). (Image: ATLAS Collaboration/CERN)

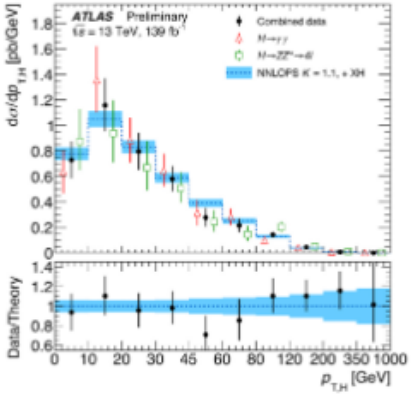



Figure 3: Differential cross section for the transverse momentum (pT,H) of the Higgs boson from the two individual channels (H→ZZ*→4ℓ, H→γγ) and their combination. (Image: ATLAS Collaboration/CERN)

# Layout two images side-by-side (Drupal 8 CERN theme)

```
<div class="col-sm-6"> <figure class="cds-image" id="ATLAS-PHOTO-2018-020-2"><a
href="//cds.cern.ch/images/ATLAS-PHOTO-2018-020-2" title="View on CDS"><img
alt="Plots or Distributions,Physics,ATLAS,Higgs boson"
src="//cds.cern.ch/images/ATLAS-PHOTO-2018-020-2/file?size=large" /></a>
<figcaption>Figure 3: A recent distribution of candidate Higgs events from the H to
ZZ to 4 leptons analysis using 13 TeV data from the LHC. The excess of events
around 125 GeV is consistent with Standard Model predictions for the Higgs boson.
(Image: ATLAS Collaboration/CERN)</figcaption></figure></div>
<div class="col-sm-6"> <figure class="cds-image" id="ATLAS-PHOTO-2018-020-1"><a
href="//cds.cern.ch/images/ATLAS-PHOTO-2018-020-1" title="View on CDS"><img
alt="Plots or Distributions,Physics,ATLAS,Higgs boson"
src="//cds.cern.ch/images/ATLAS-PHOTO-2018-020-1/file?size=large" /></a>
<figcaption>Figure 4: The measured interaction strength as a function of the mass
of different particles in the Standard Model. (Image: ATLAS and CMS
Collaborations/CERN)</figcaption></figure></div>
```

Need to learn bootstrap classes

# Large-Scale Porting of Data

## Updates

- There are 400-500 articles that need to be ported
- They contain short codes for the layout
  - They will need to be translated manually or automatically

## Job Postings

- There are 400-500 postings that need to be ported
  - We maintain an archive of past postings
- Should be straightforward

## Virtual Visits

- There are around 400 visits that need to be ported
  - They are in a different Drupal 7 site

# Summary

## Move to Drupal 8

- We are trying to comply with the choice of Drupal 8 for upgrade
  - The CERN support team is very helpful
  - CERN Override Theme provides most of the functionality we need
- The theme (perhaps Drupal, in general) is frustrating for high-level design
  - The environment for content providers (writers) is clunky
  - We are having to develop code (templates) to implement our style
- We do not yet know how the mass import (>1000 nodes) will go

## Common Goals, Different Approaches

- CMS, ALICE seeking developer
- IPPOG using designer / first implementation (we will port data)
- **Don’t we all (including CERN) have same needs for publishing articles?**