

# The DRD3 website

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**1st DRD3 week on Solid State Detectors R&D**  
20 June, 2024

# The DRD3 website

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← → ↻ drd3.web.cern.ch/?check\_logged\_in=1

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CERN Accelerating science

Sign in Directory

DRD3 - R&D on Semiconductor Detectors

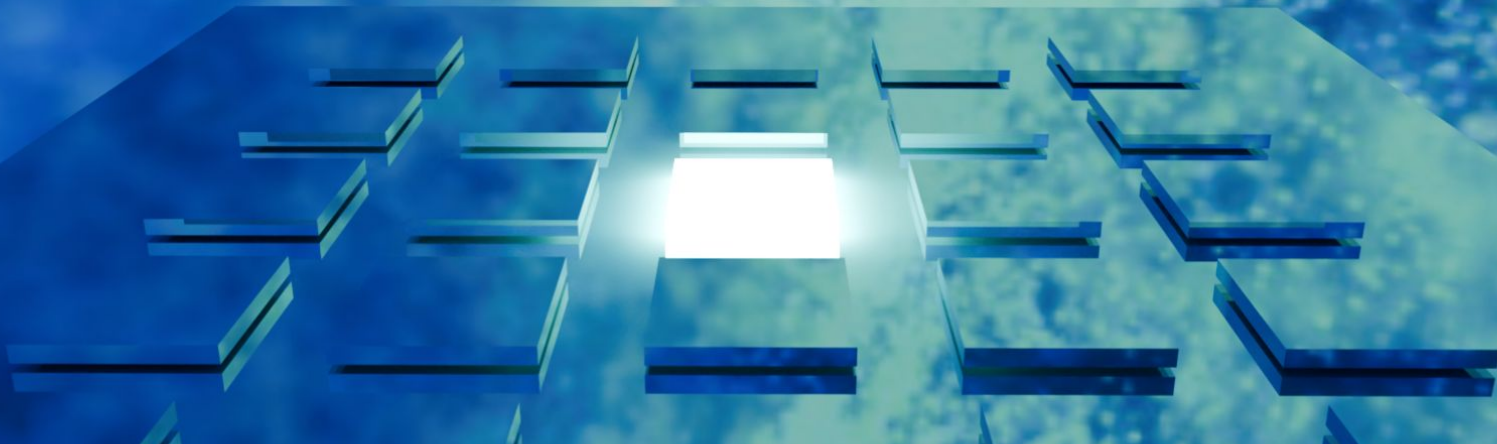
HOME MEETINGS & ANNOUNCEMENTS ▾ ACTIVITIES ▾ DOCUMENTS LINKS ABOUT US ▾ INTERNAL ▾

## DRD 3 SOLID STATE DETECTORS

[Link to the website](#)

Solid State detectors (SSD) based on semiconductors, and in particular silicon detectors, are used in almost all particle physics experiments. Since they can be easily segmented using standard photolithographic techniques, they can achieve superb position resolution and play a key role in measuring primary and secondary vertices and tracking charged particles. Silicon is also used as an active medium in particle flow calorimeters to associate showers with tracks from trackers and track showers as they develop in the calorimeter.

Revolutionary improvements of SSD performance are needed to match the requirements of future experiments. All-silicon trackers are required for future hadron colliders such as FCC-hh and are one of the most competitive options also for  $e^+e^-$  Higgs factories.



# Introduction to Drupal

The website was build using **Drupal 10**.

Drupal 10 is a **Content Management System** (CMS...not that CMS)

- ...allows users with limited web development experience to add/edit/remove content and organize such content
- ...is open-source (under GNU license)
- ...is the current standard for CERN-hosted websites (will change in the upcoming years)
- ...has plenty of CERN-specific customizations/packages

# Website structure

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← → ↻ drd3.web.cern.ch/?check\_logged\_in=1



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## Main Menu

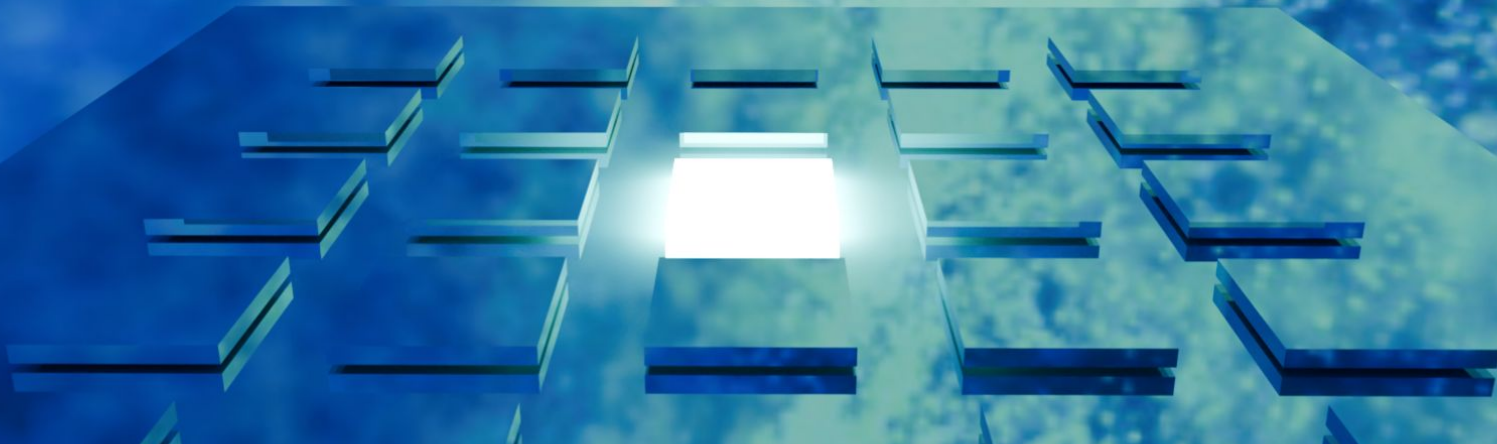
DRD3 - R&D on Semiconductor Detectors

[HOME](#) [MEETINGS & ANNOUNCEMENTS](#) [ACTIVITIES](#) [DOCUMENTS](#) [LINKS](#) [ABOUT US](#) [INTERNAL](#)

## DRD 3 SOLID STATE DETECTORS

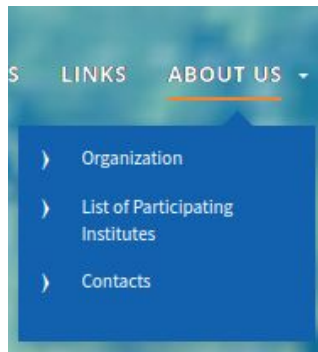
Solid State detectors (SSD) based on semiconductors, and in particular silicon detectors, are used in almost all particle physics experiments. Since they can be easily segmented using standard photolithographic techniques, they can achieve superb position resolution and play a key role in measuring primary and secondary vertices and tracking charged particles. Silicon is also used as an active medium in particle flow calorimeters to associate showers with tracks from trackers and track showers as they develop in the calorimeter.

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# Website structure

- Fairly simple tree structure
- Trying to avoid too many NNNNNLO nested levels
- If you are an editor, your area of expertise should (ideally) be limited to a **single page** (with some exceptions)



# HOW TO: become an editor

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**User roles** are linked to **CERN e-group** permissions

- Currently, only members of the **drd3-website-admin** e-group can edit the webpage and add/edit content
- All WG leaders have been added as editors
  - If you are a WG leader, this tutorial is for you!
- Self-Subscription is closed

In the future, we might want to increase the granularity of these permissions

# The DRD3 website

The screenshot shows the DRD3 website interface. At the top, there is a navigation bar with a hamburger menu, 'Manage', 'Shortcuts', and a user profile 'gdamen'. Below this is a secondary navigation bar with icons for 'Content', 'Structure', 'Appearance', 'Extend', 'Configuration', 'People', 'Reports', and 'Help'. The main header area includes the CERN logo and 'Accelerating science', along with user status 'Signed in as: gdamen (Drupal)' and links for 'Sign out' and 'Directory'. The main content area features a breadcrumb 'DRD3 - R&D on Semiconductor Detectors' and a navigation menu with 'HOME', 'MEETINGS & ANNOUNCEMENTS', 'ACTIVITIES', 'DOCUMENTS', 'LINKS', 'ABOUT US', and 'INTERNAL'. The main heading is 'DRD 3 SOLID STATE DETECTORS'. The text describes Solid State detectors (SSD) based on semiconductors, used in particle physics experiments. A red box highlights the 'Content' and 'Structure' management options, while another red box highlights the 'Extend' and 'People' options.

**Content:** add/edit/remove webpages, files, etc (“data”)

**Structure:** define how the webpages link each other (the “tree” structure)

**Appearance:** change colors to fancier colors

**Extend:** add new libraries and functionalities

**Configuration:** global settings

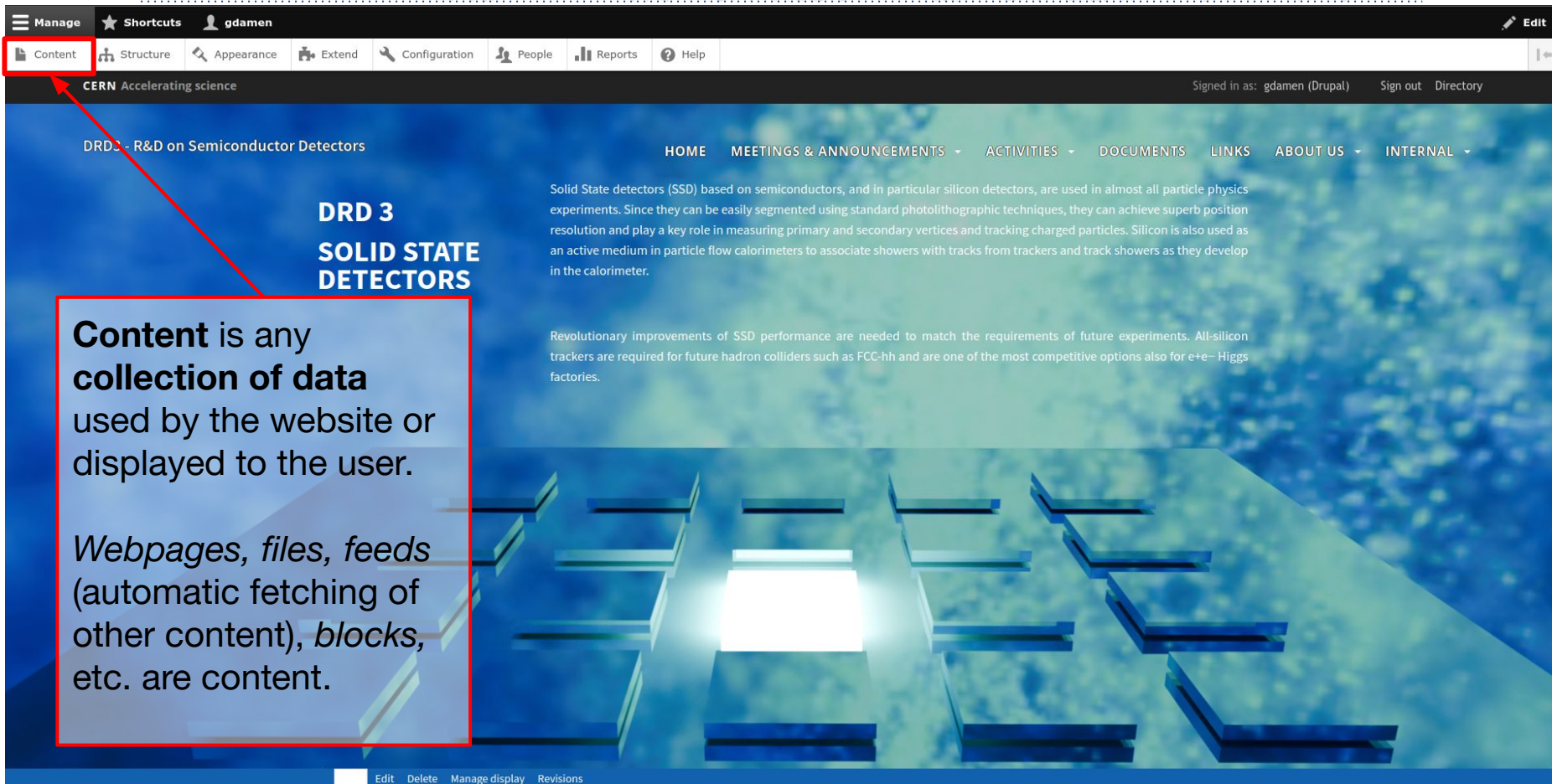
**People:** list of users and roles

Revolutionary improvements of SSD performance are needed to match the requirements of future experiments. All-silicon trackers are required for future hadron colliders, such as FCC-hh and are one of the most competitive options also for e<sup>+</sup>e<sup>-</sup> Higgs

Edit Delete Manage display Revisions

# HOW TO: Add a new page

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**Content** is any collection of data used by the website or displayed to the user.

*Webpages, files, feeds* (automatic fetching of other content), *blocks*, etc. are content.

The screenshot shows a Drupal website interface. At the top, there is a navigation bar with a 'Manage' menu (containing 'Content', 'Structure', 'Appearance', 'Extend', 'Configuration', 'People', 'Reports', 'Help') and an 'Edit' button. Below the navigation bar, the page title is 'DRD3 - R&D on Semiconductor Detectors'. The main content area features a large heading 'DRD 3 SOLID STATE DETECTORS' and two paragraphs of text. The first paragraph describes Solid State detectors (SSD) based on semiconductors, and the second paragraph discusses revolutionary improvements of SSD performance. A red box highlights the 'Content' menu item in the top navigation bar, and a red arrow points from it to the text box on the left.



# HOW TO: Add a new page

## Content

Content Blocks Comments Feeds Files

Overview Moderated content Scheduled content

Home » Administration » Content

Add content

Click here to add a new webpage

Title  
Content type  
Published status  
Language

- Any -

- Any -

- Any -

Filter

Action

- Select -

Apply to selected items

<input type="checkbox"/>	Title	Content type	Author	Status	Updated	Operations
<input type="checkbox"/>	Links	Basic page	gdamen	Published	06/18/2024 - 22:47	Edit
<input type="checkbox"/>	Documents	Basic page	gdamen	Published	06/18/2024 - 18:29	Edit
<input type="checkbox"/>	Presentation of DRD3 Spokesperson candidates and the scientific proposal	Indico Event	gdamen	Published	06/12/2024 - 21:17	Edit
<input type="checkbox"/>	First DRD3 CB meeting - Presentation of CB chair candidates	Indico Event	gdamen	Published	06/12/2024 - 21:17	Edit

List of existing content, including type

# HOW TO: Add a new page

## Add content

Home » Welcome To The DRD3 Website » Add Content

▶ **Article**

Use *articles* for time-sensitive content like news, press releases or blog posts.

▶ **Basic page**

Use *basic pages* for your static content, such as an 'About us' page.

▶ **Indico Event**

Used by Indico Feeds. Creating content of this type manually will NOT create an event in Indico.

▶ **Landing Page**

A long form story telling page.

**Add a new basic page**

Four main types of “webpage” content are available in the current website build:

- **Basic Page:** simple container of text/image/etc information, can be formatted using HTML
- **Article:** similar to basic page, used to communicate a time-stamped information
- **Indico Event:** **internal use only**. This type “translates” Indico events into a Drupal-displayable webpage
- **Landing Page:** a more complex webpage, can store a lot of information in dedicated visual “blocks”

# HOW TO: Add a new page






## Create Basic page

Home » Welcome To The DRD3 Website » Add Content » Create Basic Page

Title \*

Some new webpage

Body (Edit summary)

B I     Normal - |  Source

This is content for the new webpage.

body p

Text format Basic HTML

Published

Save Preview

## Body window

Here you should write the content of your webpage. Some simple formatting is available in the default *Basic HTML*.

A more complete toolset is available when selecting *CERN Full HTML* in the **Text format** field.

Last saved: Not saved yet

Author: gdamen

Revision log message

Briefly describe the changes you have made.

► MENU SETTINGS (Not in menu)

▼ URL ALIAS (Alias: /anewwebpage)

URL alias

/anewwebpage

Specify an alternative path by which this data can be accessed. For example, type "/about" when writing an about page.

► AUTHORIZING INFORMATION (By gdamen (6) on 2024-06-20)

► PROMOTION OPTIONS (Not promoted)

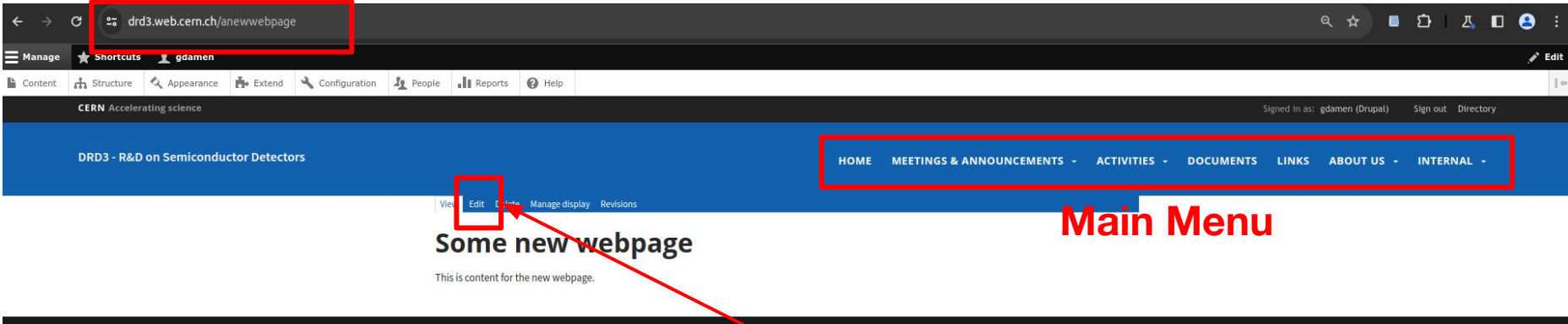
## Settings window

Window containing settings to **link the content to the website** (and make it visible to users).

For now, just create an alias (link) for the webpage (in this case, */anewwebpage*).

# HOW TO: Add a new page

Once saved (*published*) the page **can be accessed using the alias name**. However, it is not linked anywhere in the webpage.



The screenshot shows a web browser at the URL `drd3.web.cern.ch/aneuwebpage`. The page title is "Some new webpage" and the content is a placeholder: "This is content for the new webpage." A red box highlights the "Edit" link in the page's toolbar. Another red box highlights the "Main Menu" (HOME, MEETINGS & ANNOUNCEMENTS, ACTIVITIES, DOCUMENTS, LINKS, ABOUT US, INTERNAL) in the blue header. A red arrow points from the "Main Menu" area towards the "Edit" link.

We should **create a link from our menu to the webpage**.  
Let's start by editing the webpage!  
Click on **Edit**

# HOW TO: Link an existing page

**Published**  
 Last saved: 06/20/2024 - 05:27  
 Author: gdamen  
 Create new revision  
 Revision log message  
 Briefly describe the changes you have made.

**▼ MENU SETTINGS** (Some new webpage)

Provide a menu link

**Menu link title**  
 Some new webpage

**Description**  
 Shown when hovering over the menu link.

**Parent link**

- <Main navigation>
- <Main navigation>
- Home
- Meetings & Announcements
- Open Positions
- Events of Interest
- Activities
- Working Groups
- WG 1 - Monolithic Silicon
- WG 2 - Hybrid Silicon
- WG 3 - Radiation Damage
- WG 4 - Simulation
- WG 5 - Characterization
- WG 6 - Wide Bandgap and
- WG 7 - Interconnection
- **WG 8 - Outreach and**
- Work Packages

Click on *Menu Settings* > *Provide a Menu Link*

Give your webpage a title (“*Some new webpage*”)

Click on “*Parent Link*” to look at the website structure and decide where to post your link.

In this case, I will choose:

*Activities* >

*Working Groups* >

*WG8 - Outreach and Dissemination*

Save your changes

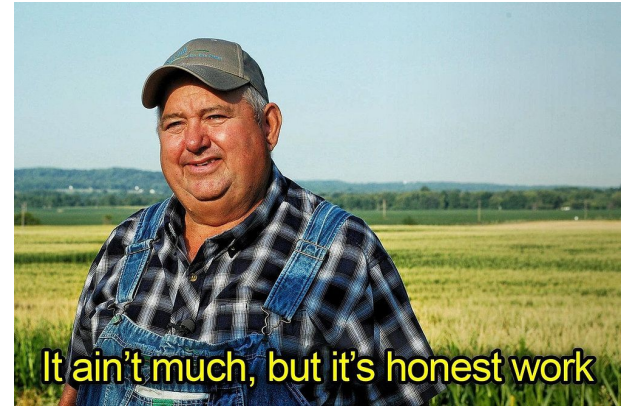
# HOW TO: Link an existing page

The screenshot shows a web page with a blue navigation bar at the top containing the following items: HOME, MEETINGS & ANNOUNCEMENTS, ACTIVITIES, DOCUMENTS, LINKS, ABOUT US, and INTERNAL. Below the navigation bar, a green notification box states: "Basic page *Some new webpage* has been updated." Below this is a toolbar with buttons for View, Edit, Delete, Manage display, and Revisions. The main content area features the heading "Some new webpage" and the text "This is content for the new webpage." On the left side, there is a vertical list of links: Contact, Some new webpage (highlighted with a blue box and an underline), and Cop. On the right side, a dropdown menu is open, listing various working groups and projects: Working Groups (with a minus sign), Work Packages (with a plus sign), Common Projects, WG 1 - Monolithic Silicon Technologies, WG 2 - Hybrid Silicon Technologies, WG 3 - Radiation Damage Characterization, WG 4 - Simulation, WG 5 - Characterization Techniques, Facilities, WG 6 - Wide Bandgap and Innovative Sensor Materials, WG 7 - Interconnection Technologies, and WG 8 - Outreach and Dissemination (with a plus sign). The CERN logo is visible in the bottom right corner of the page.

# HOW TO: Add an image

We will add this beautiful image to the WG 8 - Outreach and Dissemination webpage

Click on *Image* > Select your image from the local disk



Edit Basic page WG 8 - Outreach and Dissemination

View Edit Delete Manage display Revisions

Home > Welcome To The DRD3 Website > WG 8 - Outreach and Dissemination > Edit

Title \*

WG 8 - Outreach and Dissemination

Body (Edit summary)

Rich text editor interface showing a toolbar with options like Bold (B), Italic (I), and a text area containing the word "Image". The text format is set to "Basic HTML".

Published

Save

Preview

Delete

Insert Image

Image \*

honestwork.jpeg

Remove

Alternative text \*

image of an honest worker

Short description of the image used by screen readers and displayed when the image is not loaded. This is important for accessibility.

Align

None  Left  Center  Right

Caption

Save

# HOW TO: Add an image

DRD3 - R&D on Semiconductor Detectors

HOME MEETINGS & ANNOUNCEMENTS - ACTIVITIES - DOCUMENTS LINKS ABOUT US - INTERNAL -

View Edit Delete Manage display Revisions

## WG 8 - Outreach and Dissemination

This is content for the WG 8 - Outreach and Dissemination page. It's not much, but it's honest work.





# HOW TO: Add an image

DRD3 - R&D on Semiconductor Detectors

HOME MEETINGS & ANNOUNCEMENTS - ACTIVITIES - DOCUMENTS LINKS ABOUT US - INTERNAL -

View Edit Delete Manage display Revisions

## WG 8 - Outreach and Dissemination

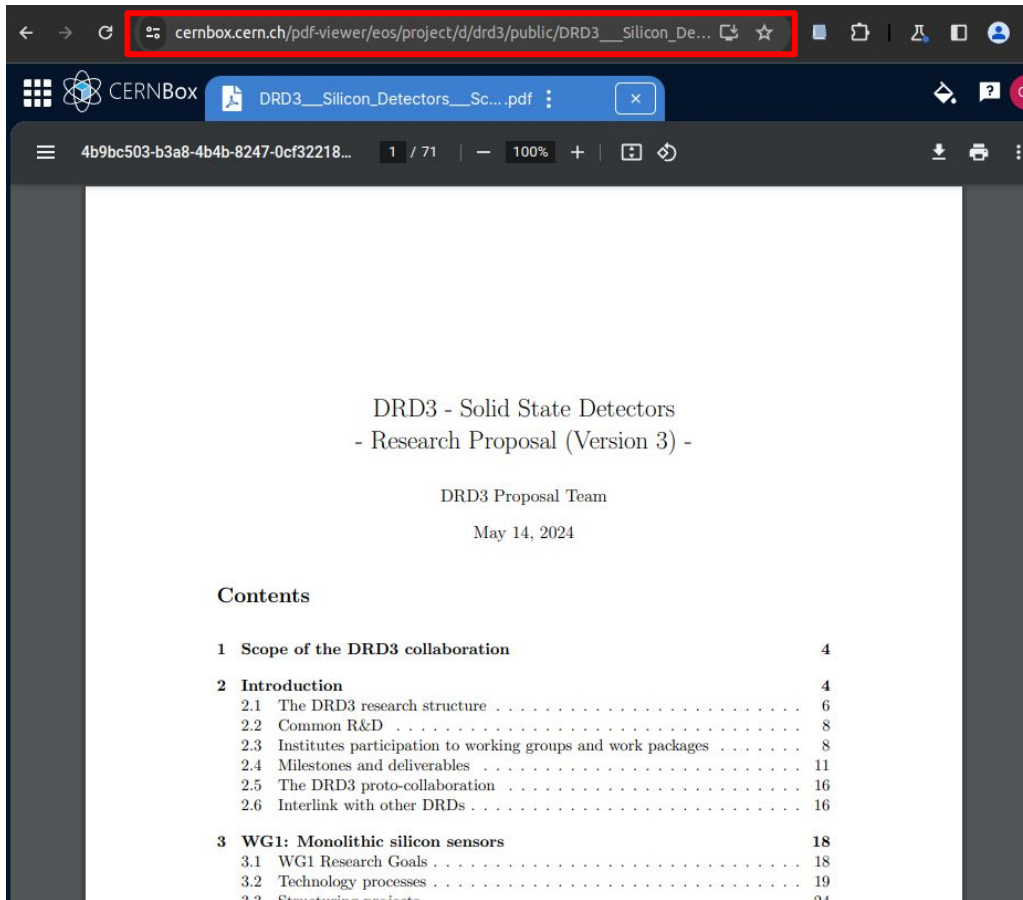
This is content for the WG 8 - Outreach and Dissemination page. It's not much, but it's honest work.



Drupal sites storage is intended to be used for **website serving purposes**

It is meant to include **only files needed to deploy and serve the website**

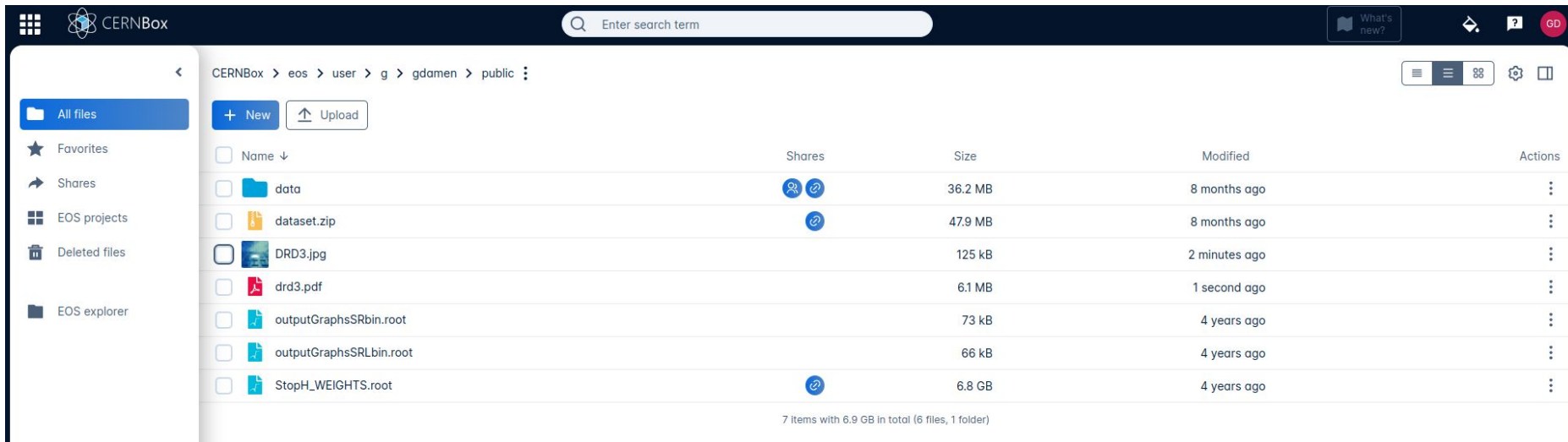
# HOW TO: Add a link







There are multiple ways to link content/websites to an existing webpage, but since we only have a few minutes let's look at the easiest.

We want to post a link to the **DRD3 Research Proposal** (posted on **cernbox**)


# HOW TO: Add a CERNBOX link



The screenshot shows the CERNBox web interface. The breadcrumb path is "CERNBox > eos > user > g > gdamen > public". The file listing table is as follows:

<input type="checkbox"/>	Name ↓	Shares	Size	Modified	Actions
<input type="checkbox"/>	data	 	36.2 MB	8 months ago	⋮
<input type="checkbox"/>	dataset.zip		47.9 MB	8 months ago	⋮
<input type="checkbox"/>	DRD3.jpg		125 kB	2 minutes ago	⋮
<input type="checkbox"/>	drd3.pdf		6.1 MB	1 second ago	⋮
<input type="checkbox"/>	outputGraphsSRbin.root		73 kB	4 years ago	⋮
<input type="checkbox"/>	outputGraphsSRLbin.root		66 kB	4 years ago	⋮
<input type="checkbox"/>	StopH_WEIGHTS.root		6.8 GB	4 years ago	⋮

7 items with 6.9 GB in total (6 files, 1 folder)

- Put the file (drd3.pdf) into a **public** folder
- Create a quicklink 
- Copy the quicklink

# HOW TO: Add a CERNBOX link

## Edit Basic page WG 8 - Outreach and Dissemination

View Edit Delete Manage display Revisions

Home » Welcome To The DRD3 Website » WG 8 - Outreach and Dissemination » Edit

Title \*  
WG 8 - Outreach and Dissemination

Body (Edit summary)

**B I** [Link icon] [List icon] [Table icon] [Quote icon] [Image icon] Format - | Source

Link (Ctrl+K)

Text format Basic HTML

Published

Save Preview Delete

Just add/edit your favourite webpage, click on the **Link button** (available in all Text formats) and add your link

### Add Link

URL

Save

# HOW TO: Add CDS content

Using the *CERN Full HTML* text format, we can also display content directly from CDS





*Edit Basic page WG 8 - Outreach and Dissemination*

View Edit Delete Manage display Revisions

Home » Welcome To The DRD3 Website » WG 8 - Outreach and Dissemination » Edit

Title\*  
WG 8 - Outreach and Dissemination

Body (Edit summary)

**B I U S x<sup>2</sup> x<sub>a</sub> I<sub>x</sub>** |     | Font - Size - Normal -

**Insert CDS Image/Video**

body p

Text format CERN Full HTML

Published

Save Preview Delete

Embed an image or video from CDS

Add CDS resource Add CDS collection

Please enter a CDS resource ID for a video or image in the field below.

CDS ID

Example: CERN-PHOTO-201405-097-1

OK Cancel

# Future improvements

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- Better integration with **CERNBox**
  - Automatically refresh images/content based on files available on the DRD3 CERNBox
  
- Complete integration with Indico Feed
  - Automatically fetch new DRD3 events and display it on the website

# Comment? Suggestions?

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