

Project status, plan

Ken Suzuki, Stefan-Meyer-Institut, ÖAW

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To Do List (random order)

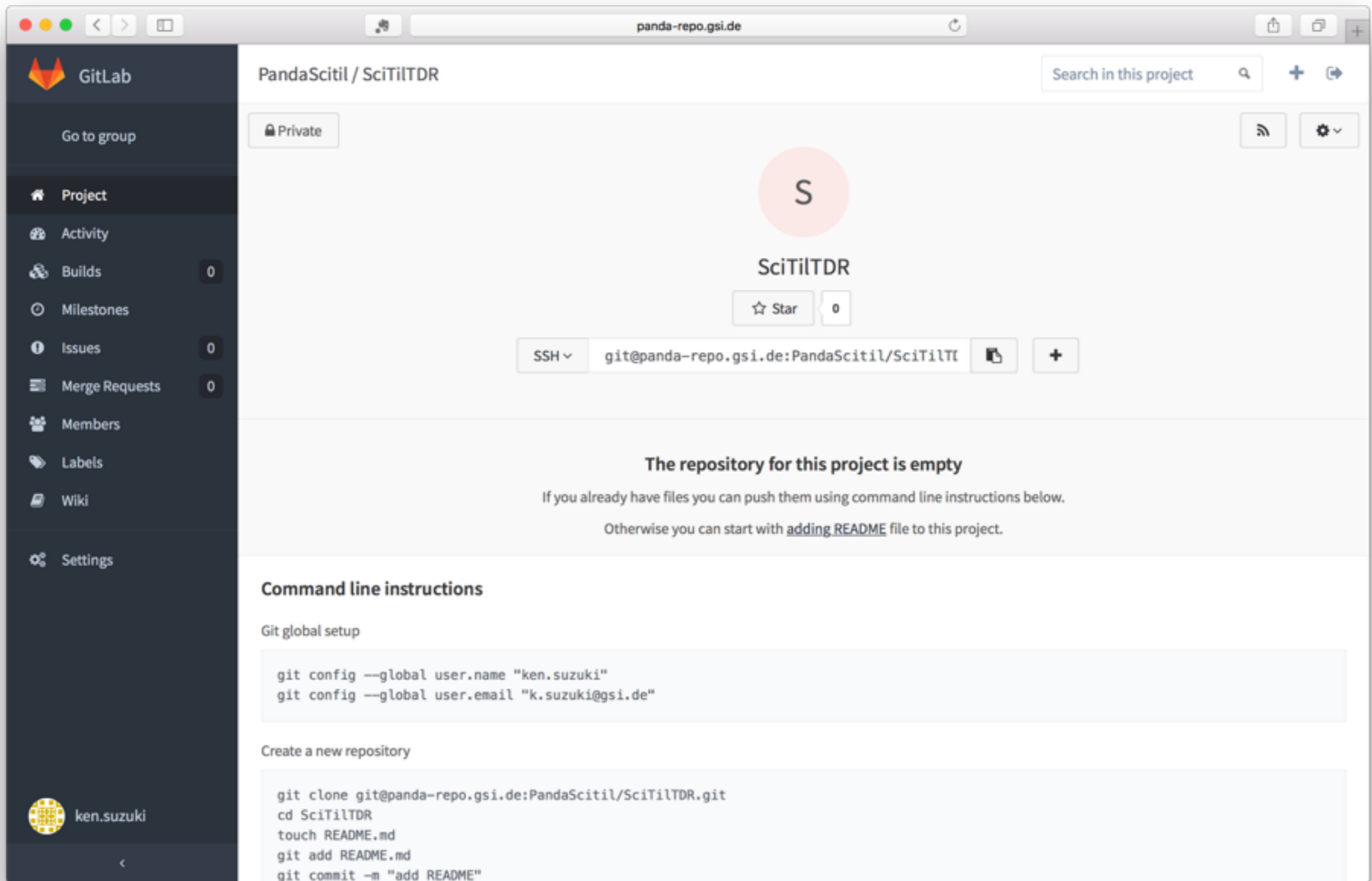
- Update the CAD drawing, including
 - realistic support structures
 - cables
- Prototype test
 - single tile stand alone
 - a few tiles with TOF-PET(2) chip readout
- Software
 - basic PIDs
 - t0 implementation
- relative TOF
- preshower correction
- Update cost estimates
- Radiation hardness test
 - before or after June
- TDR
 - 0 version on Git on panda-repo.gsi.de (?)
 - “first” version till the next collaboration meeting (06.06.2016, GSI)

Service cross sections

System Name	Total Service Cross Section	Rear Solenoid Ducts	Front Solenoid Ducts	Backwards Central Opening	Other	Thereof routed to Service Area E10
HV	not to outer world					
LV	530 mm ²					
Readout	530 mm ² + 500 mm ²					
Gases	not foreseen					
Readout Cooling	under consideration					
Detector Cooling	not foreseen					
Other (specify)						
Heat anticipation						
TOF-PET chip	10 mW * 10k channel = 100 W					
SiPM sensor	1 μA x 70 V x 10k channel = 0.7 W					
Readout board	60W / 256 channel, 2.4kW total					

still very crude estimate. sent to Tassos

Git Repository for SciTil and SciTil TDR



The screenshot shows a web browser window displaying a GitLab repository page for 'PandaScitil / SciTilTDR'. The browser's address bar shows 'panda-repo.gsi.de'. The page features a dark sidebar on the left with the GitLab logo and navigation options: 'Go to group', 'Project', 'Activity', 'Builds' (0), 'Milestones', 'Issues' (0), 'Merge Requests' (0), 'Members', 'Labels', 'Wiki', and 'Settings'. At the bottom of the sidebar is a user profile for 'ken.suzuki'. The main content area shows the repository name 'PandaScitil / SciTilTDR' and a search bar. Below this, there's a 'Private' lock icon, a RSS feed icon, and a settings gear. A large pink circle with the letter 'S' represents the repository's profile picture. The repository name 'SciTilTDR' is displayed below the circle, followed by a 'Star' button showing 0 stars. An SSH link is provided: 'SSH v git@panda-repo.gsi.de:PandaScitil/SciTilTDR'. Below the link is a message: 'The repository for this project is empty. If you already have files you can push them using command line instructions below. Otherwise you can start with [adding README](#) file to this project.' Underneath, there are two sections for 'Command line instructions'. The first section, 'Git global setup', contains the following commands:

```
git config --global user.name "ken.suzuki"
git config --global user.email "k.suzuki@gsi.de"
```

The second section, 'Create a new repository', contains the following commands:

```
git clone git@panda-repo.gsi.de:PandaScitil/SciTilTDR.git
cd SciTilTDR
touch README.md
git add README.md
git commit -m "add README"
```

Status summary

Sub-PSP code	Work Package	Next Milestone	Achievements	Current Activity	Critical Items	Schedule Status
1.4.1.06	Detector		New detector prototype built with new geometry, new sensors	Further optimisation going		on time
1.4.1.06	Radiation Hardness		Assesment positive from literature study	Preparing for the irradiation test	Man power, SiPM not radiation hard	risk of delay
1.4.1.06	Electronics		TOF-PET evaluation kit tested	Waiting for the new version	Man power	on time
1.4.1.06	Mechanics		First design (shared with DIRC) exists	Updating for the new geometry		on time
1.4.1.06	Infrastructure		Planning for cabling and supplies not started yet	-	Waiting for the freezing of the design	on time
1.4.1.06	Prototypes		Detector prototype is in good shape	Readout electronics		on time
1.4.1.06	Slow Control		Person in charge assigned	-		
1.4.1.06	Offline Software: Simulation		Time based simulation software ready	PID implementation		on time
1.4.1.06	Online Software		preshower study (nearly) finished	Relative TOF, t0		on time
1.4.1.06	TDR	M3: 6/2016	Version 0 in Github	Writing text, updating simulation	Man power	risk of delay
1.4.1.06	Project management		new master student	develloping		on time

sent to Lars

We intensify the activity for coming months