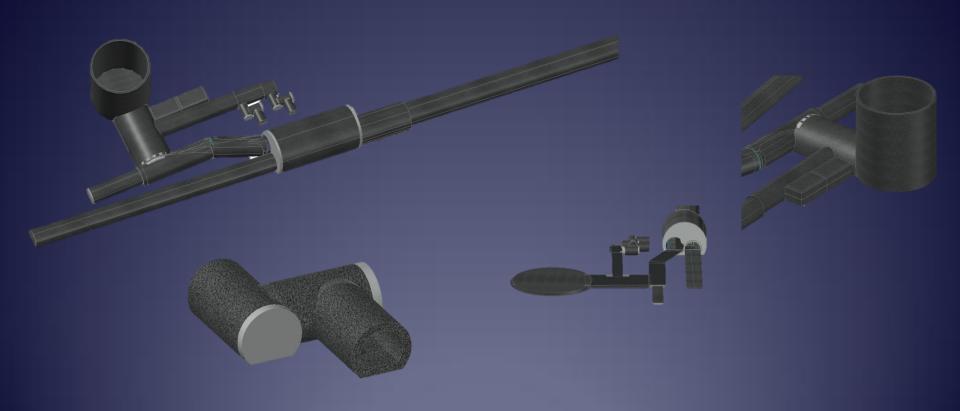


# Secondary beam layout for LAGUNA-LBNO project



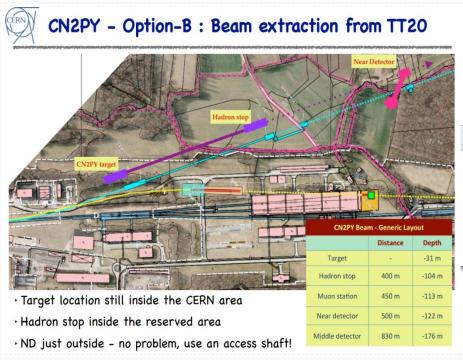
Diamanto Smargianaki & Ilias Efthymiopoulos CERNCERN[EN/MEF-LE]

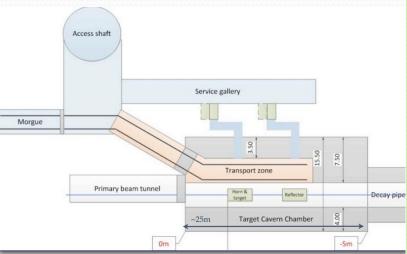


### Introduction

• 3D Models for Target chamber, Decay tunnel, Hadron stopper, Transport zone and Service gallery. Option A

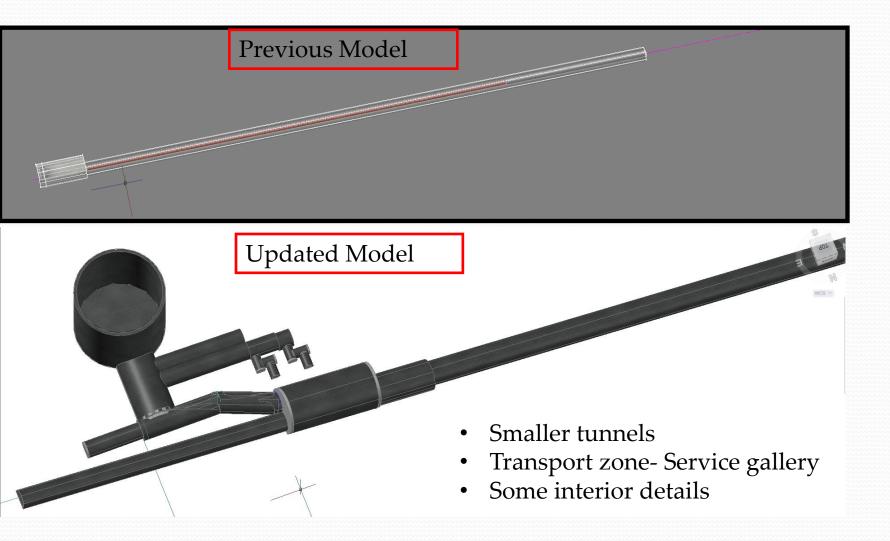
#### See talk of Ilias at previous meeting!



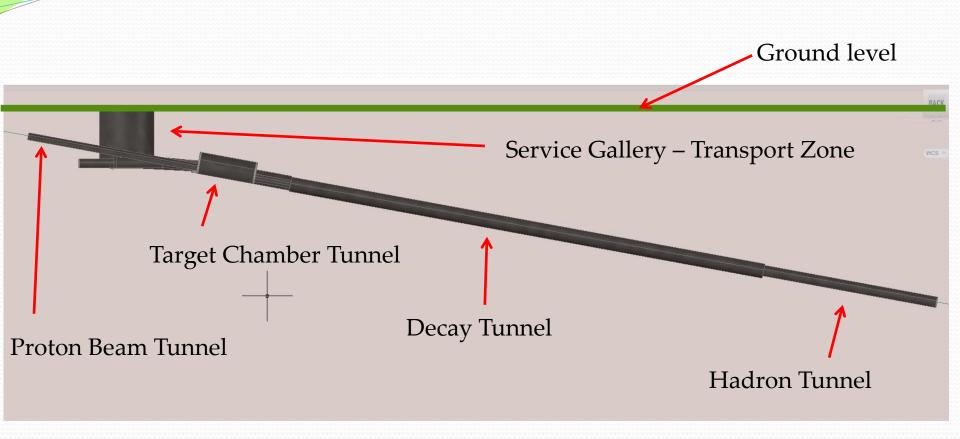


- Target cavern follows the beam slope
- Access galleries in horizontal surface
- Service gallery horizontal

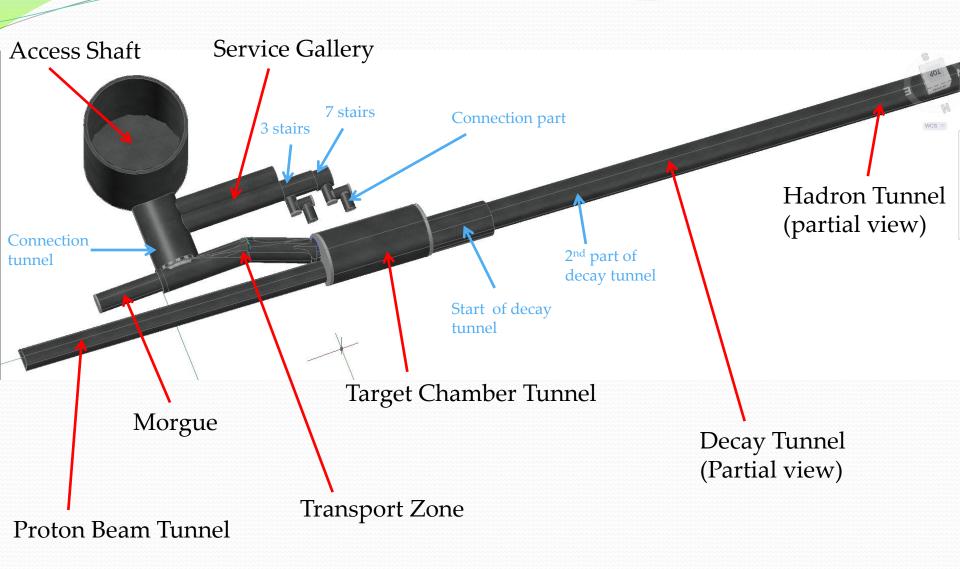
### Overview



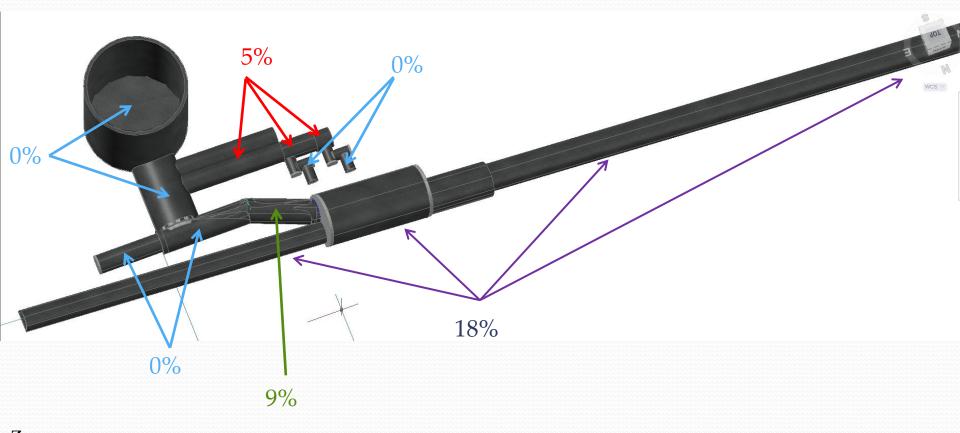
### Side View



# Top View



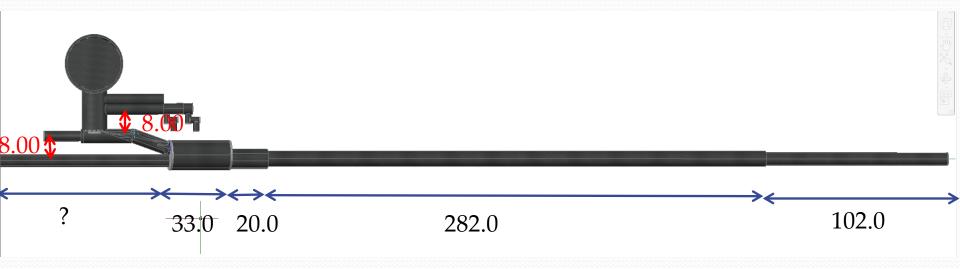
# Slopes



X

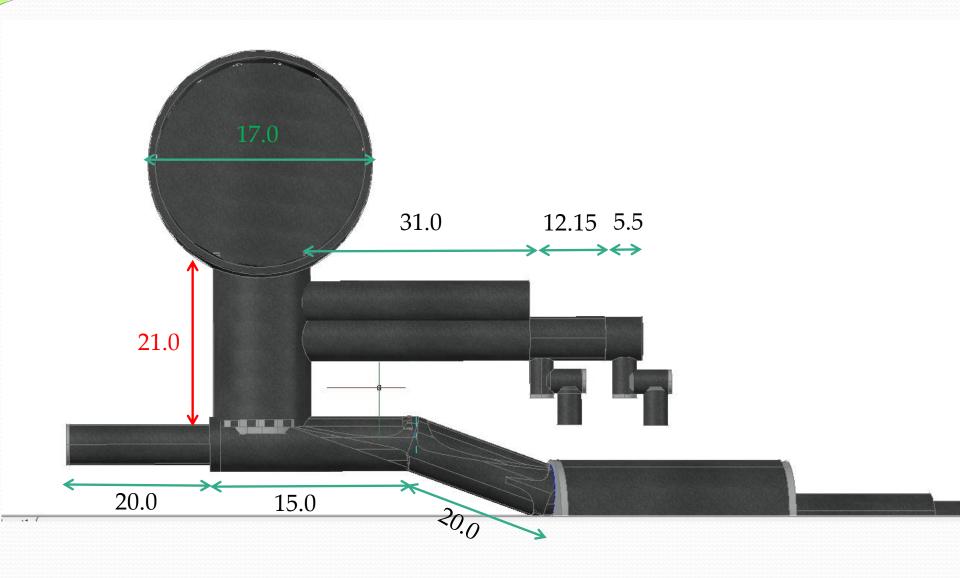
•x, is the horizontal axis and z is the vertical axis

### Horizontal Dimensions

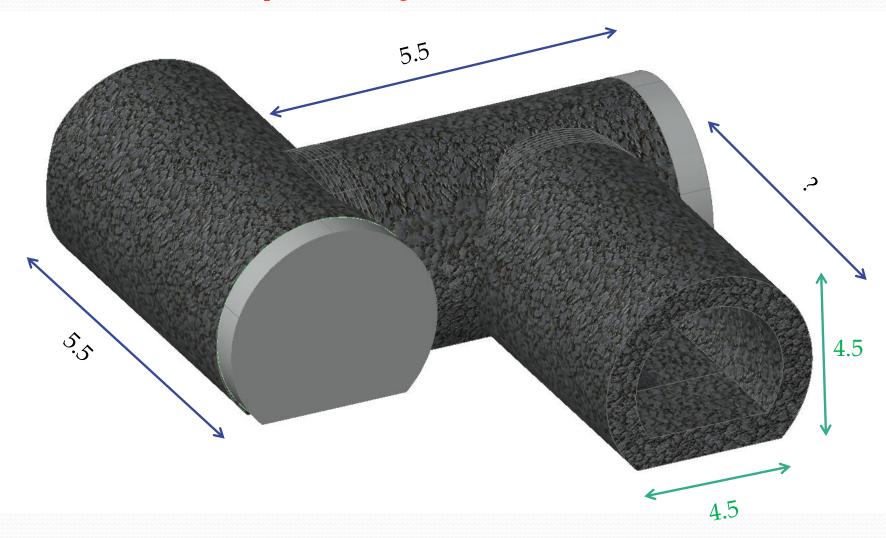


- All dimensions are in meters
- Dimensions for the tunnels are the outer dimensions

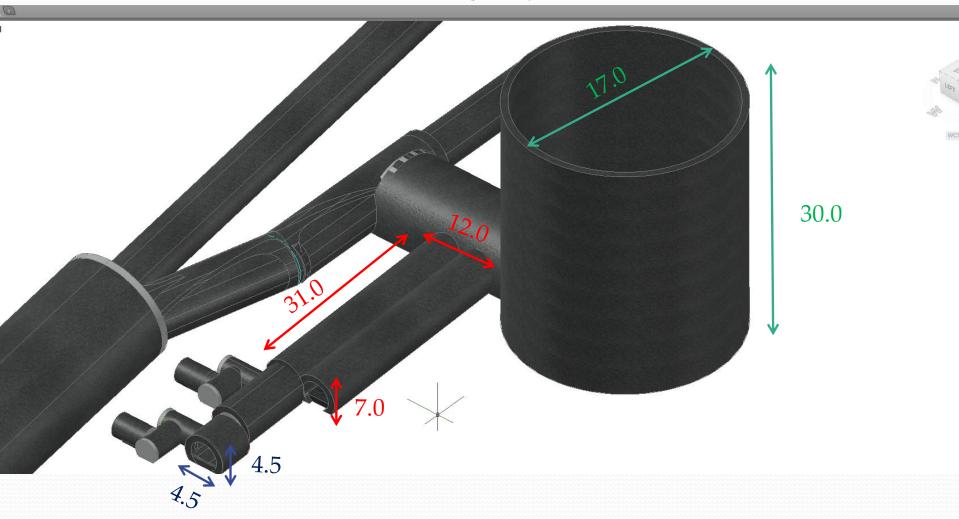
### Dimensions- Service gallery- Transport zone



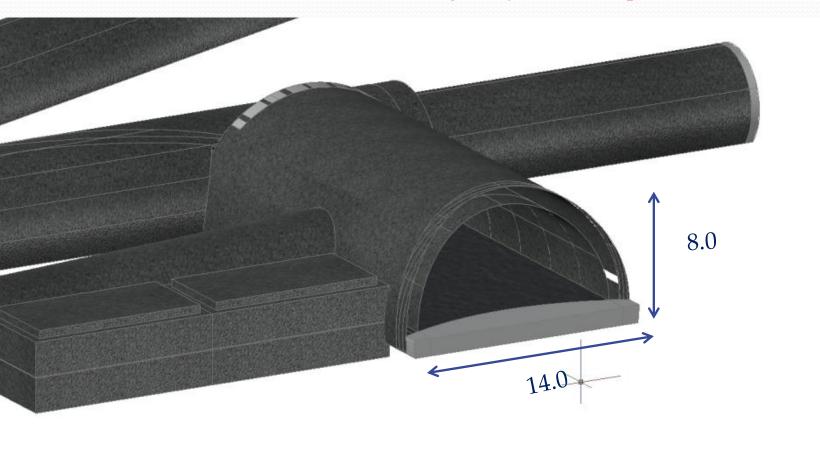
Connection part with target chamber tunnel



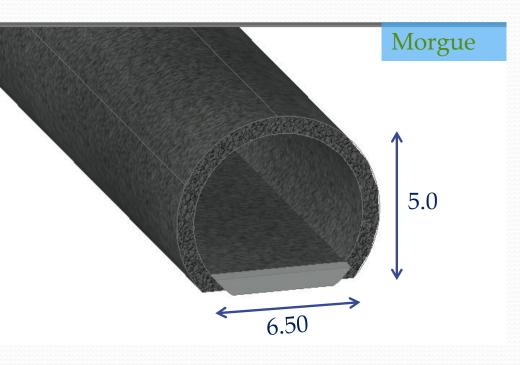
Access shaft- Service gallery

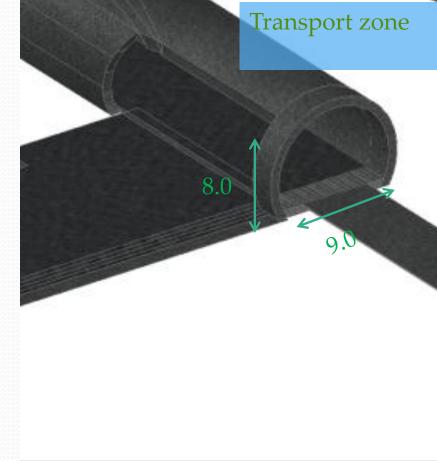


Connection tunnel between service gallery and transport zone

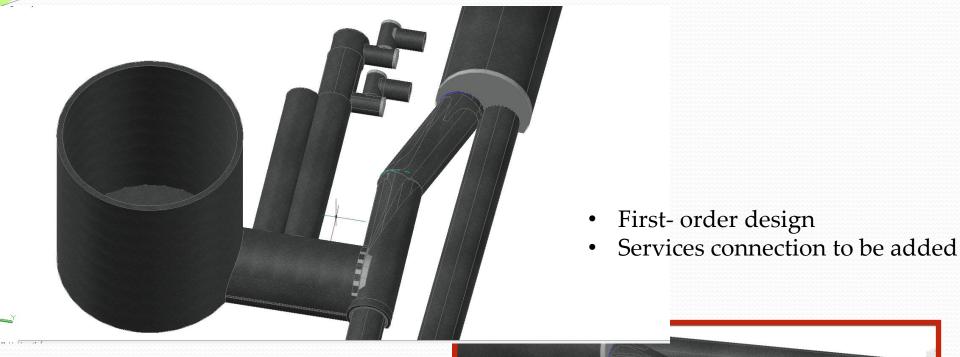


#### Morgue-Transport zone



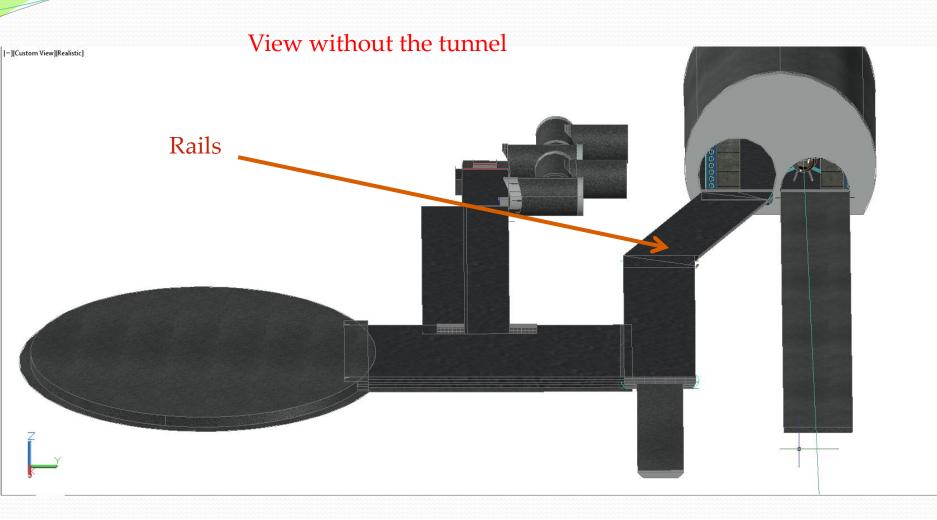


### Transport & Installation

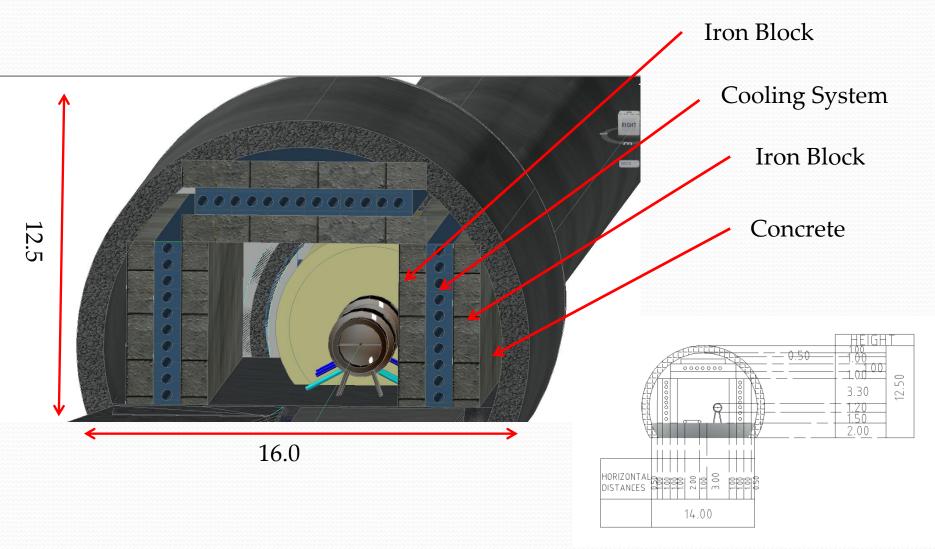


View without the tunnel

## Access to the target area

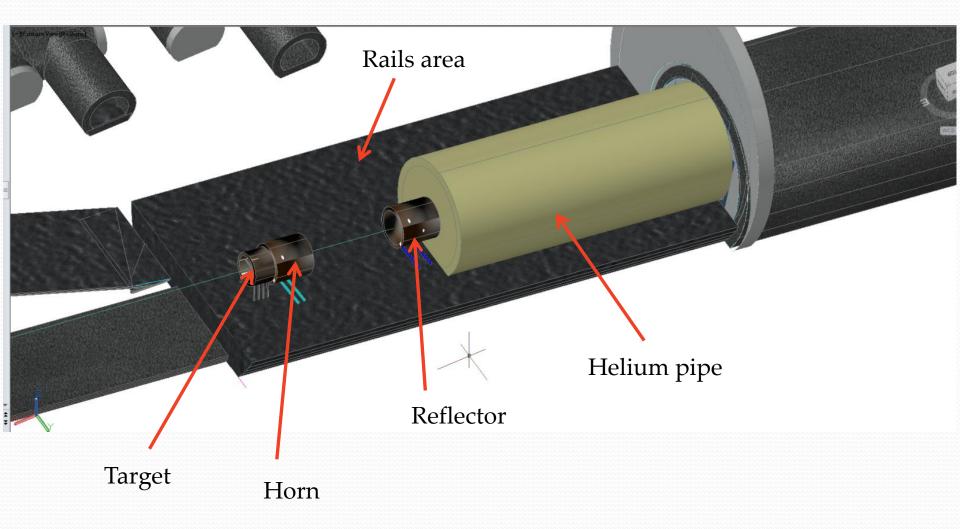


## Target Area

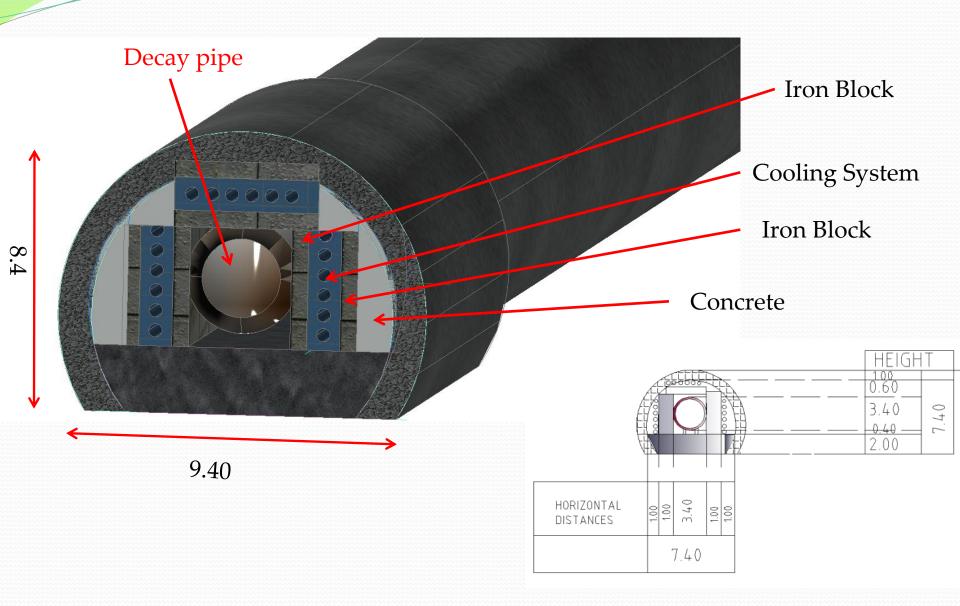


# Target area-interior

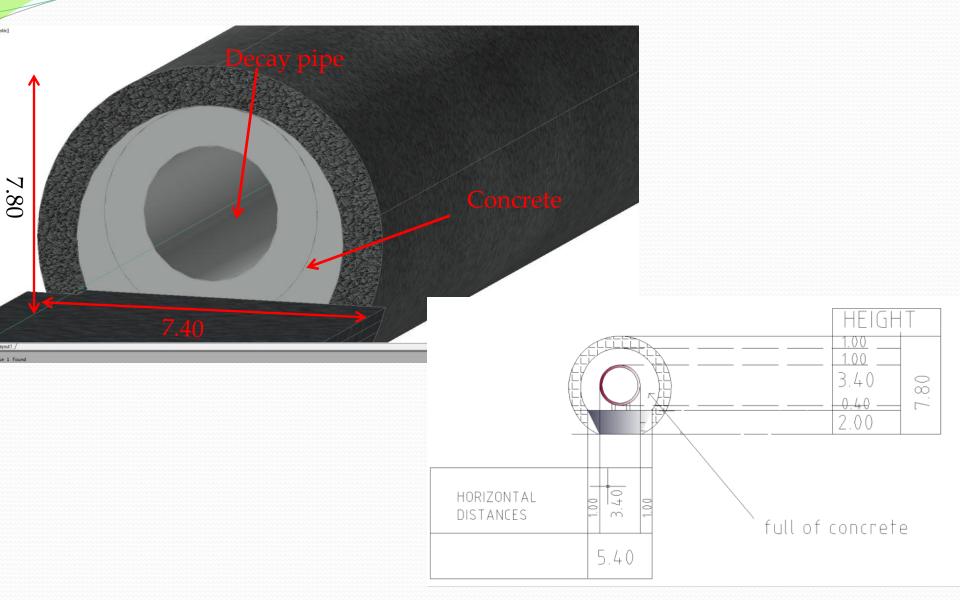
#### View without the tunnel



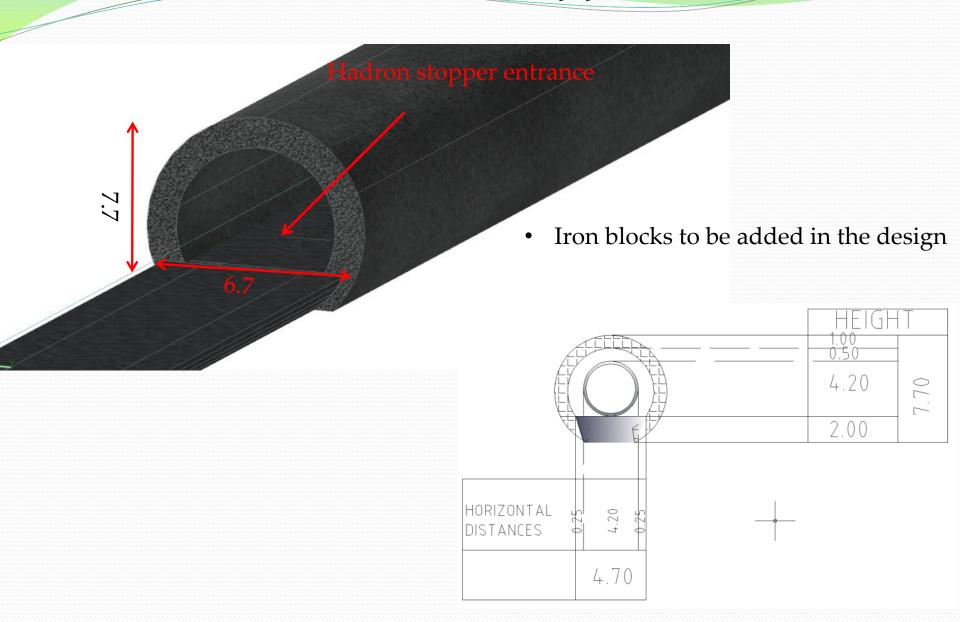
# Start of decay tunnel



# Second Part of Decay tunnel



# Hadron stopper



# Next Steps

Evaluate other options for the transport zone and service gallery

Evaluate dimensions

Cost estimation

Interior design

# Thank you... questions?

