



University  
of Glasgow



# Magnet Meeting 31 Aug. 2010

Inti Lehmann



# Agenda



- Topics
  - **Design of the target spectrometer platform**
    - Edward Lisowski
    - Jost Luehning
    - Inti Lehmann
  - **Considerations on a set-up at FZJ**
    - Andrea Bersani
    - Inti Lehmann
    - All: discussion
  - **Infrastructure: power supplies and cryogenic needs**
    - All: discussion
  - **AoT**

# TS Platform Objectives



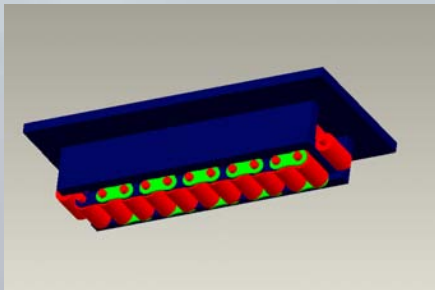
- **Movement over 20m**
  - **reliable, (semi) automatic?**
  - **relatively fast (few h)**
  - **well defined path in x (1cm?)**
  - **minimise vibrations**
  - **avoid early definition of path**
- **Alignment at in-beam position**
  - **in x, y and z**
  - **precise <1mm?**
  - **no shaking**
  - **(semi) automatic?**

# TS Platform movement

- Easy and fast semi automatic roll in

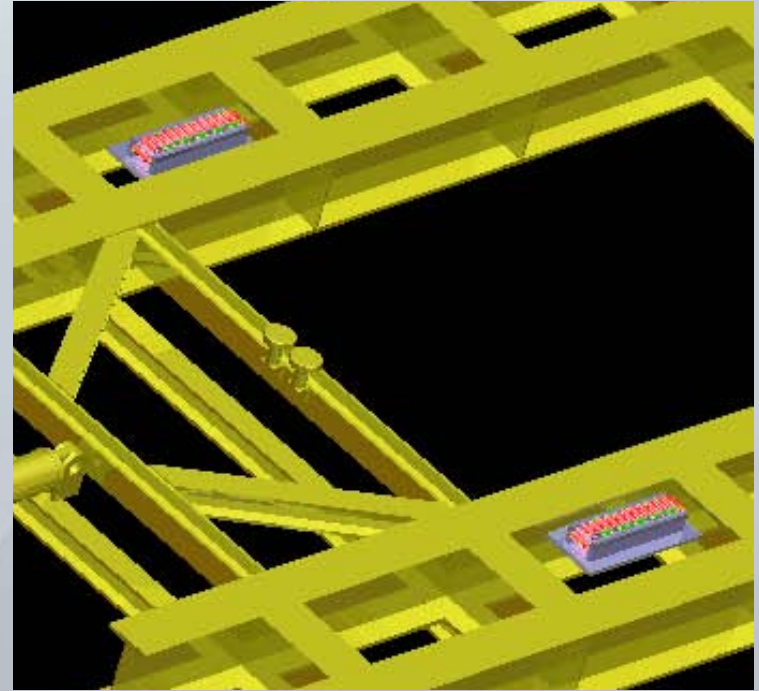
- **Hillman rollers**

- reliable
- require free height



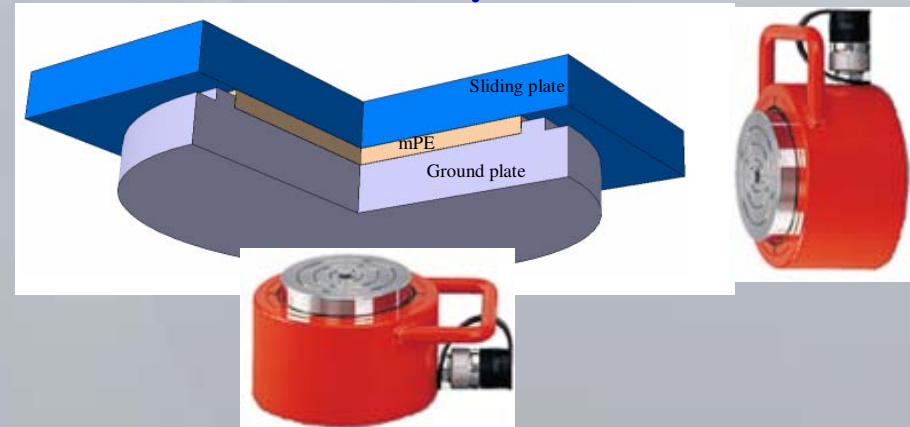
- **Air cushions**

- possible oscillations
- high price
- huge air flow required



# TS Platform Alignment

- Precise semi automatic positioning
  - **Plastic sliders above vertical jack**
    - staying in place for ever
  - **Force by jacks**
    - driven remotely
    - in z lifting plate with sliders
    - in x, y relative to base plate
  - **Alignment feedback from all crucial places**
    - relative to beam pipe



# TS Platform

- My proposal inspired by Edward's design

