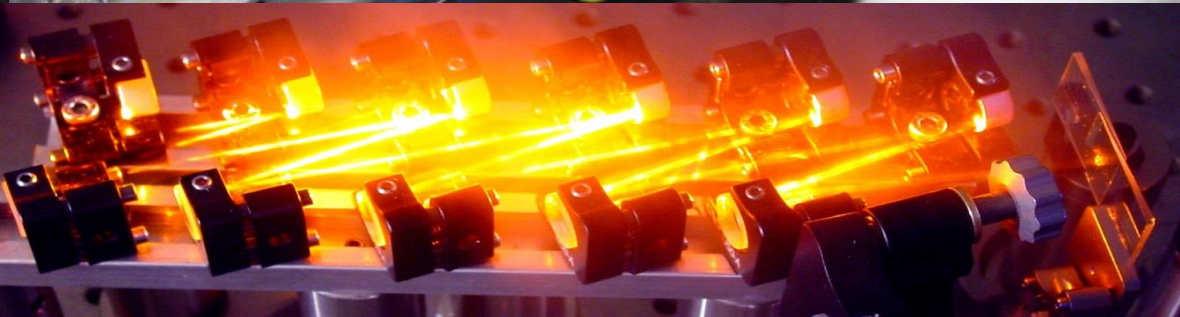
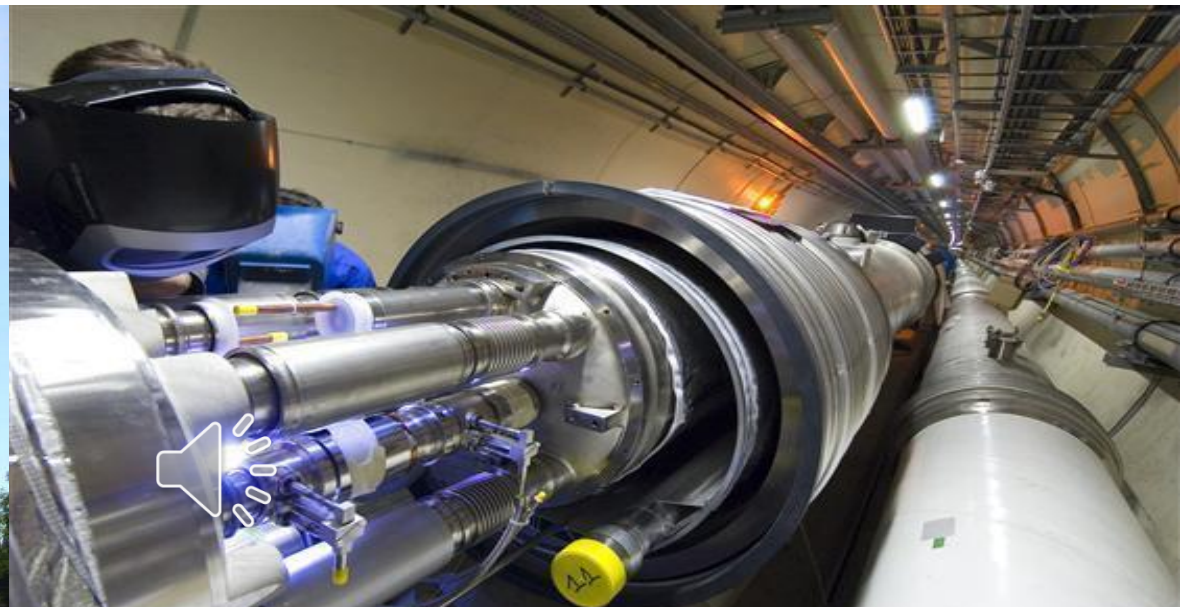


ELI-ALPS, THE HUNGARIAN ELI PILLAR



János Mucsi, 18. October, 2013.

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January 2011 - the Government confirmed the implementation of the ELI-HU project

Estimated total budget

EUR 245 million

Development Program

New Széchenyi Plan 2011-2013

Project owner and recipient

ELI-HU Research and Development Non-Profit Ltd.



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Preparation phases

Preparation Project phase I.

- Total budget 992 million HUF (cc. 3.3 M EUR)
- Non-refundable grant from GOP 1. priority
- EU funding: 85%
- Grant contract was signed on April 13, 2011

Preparation Project phase II.

- Total budget 2.818 billion HUF (cc. 9.6 M EUR)
- Non-refundable grant from GOP 1. priority
- EU funding: 85%
- Grant contract was signed on January 26, 2012

Implementation phase

Major project

- Planned maximum budget 59.8 billion HUF (cc. 200 M EUR)
- Non-refundable grant from GOP 1. priority
- EU funding: 85%
- Grant contract was signed on August 28, 2013

The Szeged location offers lots of advantages for the facility



The Szeged site

- Szeged, Dél-Alföldi Régió (South Great Plain Region)
- Site owned by the state and managed by the University of Szeged
- Brownfield site of 100 / 10 ha
- Near the city center
- Excellent access to pan-European highway M5
- Proximity of Romanian and Serbian border



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LOCATION OF ELI-ALPS



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LOCATION OF ELI-ALPS

NEW SZÉCHENYI PLAN

ELI-ALPS

**Planned
Science park**



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Procedure: Public procurement (almost done!)

GENERAL CONTRACTOR – Consider Hungarian law!!!

- Open tender, cc. 80 M EUR
 - preliminary quality control to Intermediary Body – 2.5-3 months
 - Bidding period – 45 days
 - Evaluation of bids – 60 days (can be extended once if needed)
 - Result (summary) – right after evaluating the bids
 - Signing the contract – 15 days after the result
- <http://www.kozbeszerzes.hu/jogi-hatter/hazai-szabalyozas/>

Procedure: Public procurement

SCIENTIFIC TECHNOLOGY AND EQUIPMENT – Consider Hungarian law!!!

- Tender with negotiations – 2 phases (financial pre-qualification and actual bidding phase)
- cc. 50 M EUR – possible negotiations on technical parameters and contractual conditions
- Preliminary quality control to Intermediary Body – 2.5-3 months
- Prequalification phase – minimum 30 days
- Evaluating prequalification – maximum 30 days (can be extended once)
- Result (summary of prequalification) – right after evaluating prequalification
- Asking for bids and bidding period – cc. 20 days
- Negotiations – cc. 30 days
- Result (summary) – within 30 days after last negotiation
- Signing the contract – 15 days after the result

 <http://www.kozbeszerzes.hu/jogi-hatter/hazai-szabalyozas/>

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Procedure: R+D contracts (no public procurement)

SCIENTIFIC TECHNOLOGY 2.

- cc. 40 M EUR – possible negotiations on technical parameters and contractual conditions
- Preliminary quality control to Intermediary Body – 1.5-2 months
- Prequalification phase – minimum 30 days
- Evaluating prequalification – maximum 30 days (results)
- Asking for bids and bidding period – cc. 20 days
- Result (summary) – within 30 days after last bidding period
- Signing the contract – 5 days after the result

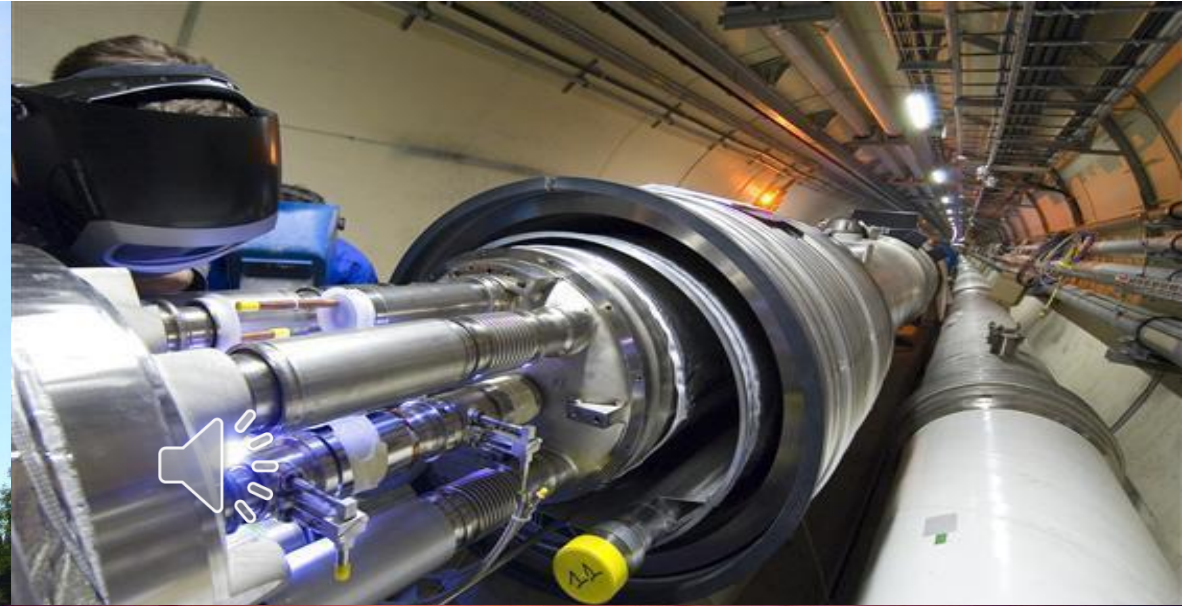
• <http://www.kozbeszerzes.hu/jogi-hatter/hazai-szabalyozas/>

- General contractor – June 27. 2013, expected contract end of 2013.
- Supervising engineers – expected contract November 2013.
- Architect/Designer control – contract: September 2013.
- Additional design – expected contract November 2013.
- Design controller for additional design – expected contract Q4 2013.
- 3D virtual controlling – expected contract end of 2013.

ELI-ALPS PROJECT TECHNICAL PREPARATORY STEPS



SZÉCHENYI PLAN



János Mucsi, 18. October, 2013.

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LOCATION OF ELI-ALPS

NEW SZÉCHENYI PLAN

ELI-ALPS

**Planned
Science park**



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PHYSICAL PREPARATION OF CONSTRUCTION

- Ammunition removal
- Shrub-tree removal
- Concrete removal (more than 5 000 m³)



PHYSICAL PREPARATION OF CONSTRUCTION

Ammunition, shrub removal



PHYSICAL PREPARATION OF CONSTRUCTION

Concrete removal



PREPARATION OF CONSTRUCTION

- Building permit – December 20. 2012.
- Road building permit – December 18. 2012.
- Water supply, sewage and drain water permits – July 19. 2013.
- PEIA (preliminary environmental impact assessment): August 24. 2012.
- Public procurement for general contractor – June 27. 2013.
- Expected launch of construction works – end of 2013.



INTERNATIONAL ACTIVITIES



Several study tours and site visits to laser centers

Rutherford Appleton Laboratory

Max-Born-Institut

Max-Planck-Institut

Laser Megajoule, CEA

APOLLON

CLPU, Salamanca

LLNL (NIF), LBNL (BELLA)

Scientific Advisory Committee (SAC) was established

Conferences, forums

ELI-ALPS kick-off conference, press conferences

ELI-DC kick-off meeting

LEI conference

Local publicity forums, partnership forum



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ARTISTIC VIEW 1.



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ARTISTIC VIEW 2.



AKA KONZORCIUM



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ARTISTIC VIEW 3.



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SITE MAP



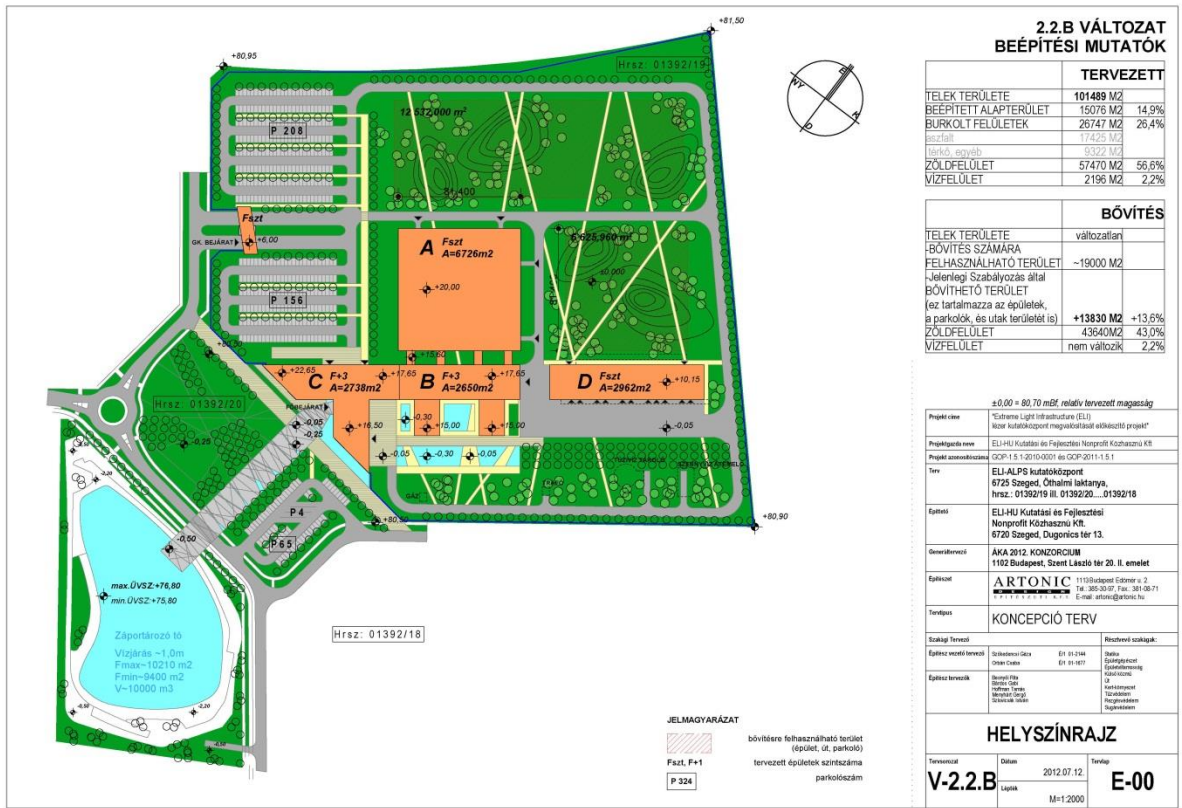
Building „A”
(lasers + target areas):
Net area - **6209 m²**

Building „B”
(scientific labs and machinery):
Net area - **7936 m²**

Building „C”
(Reception, auditorium):
Net area - **7391 m²**

Building „D”
(maintenance, storage):
Net area - **2926 m²**

Total – 24 462 m²

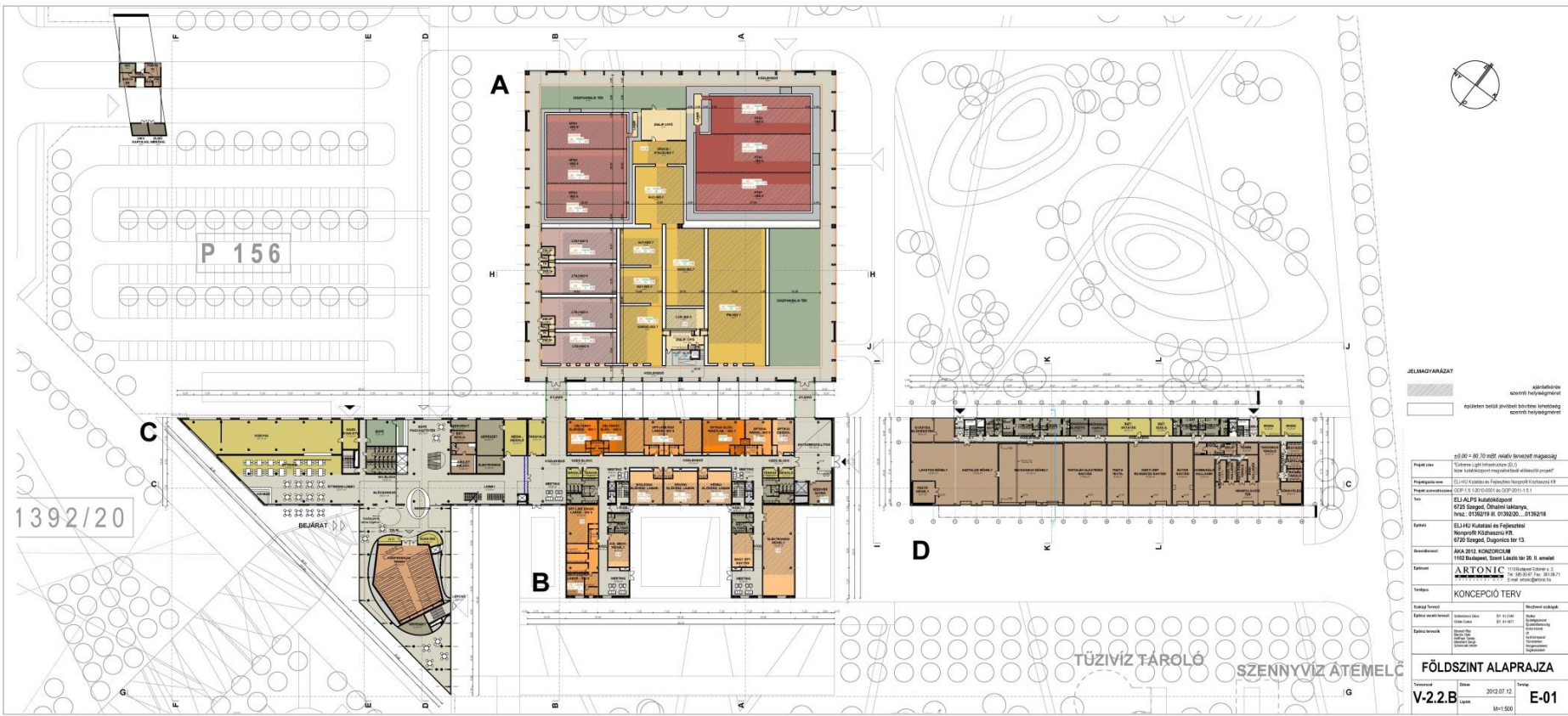


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LAYOUT – GROUND FLOOR



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3D MODEL OF THE TECHNOLOGY BUILDING

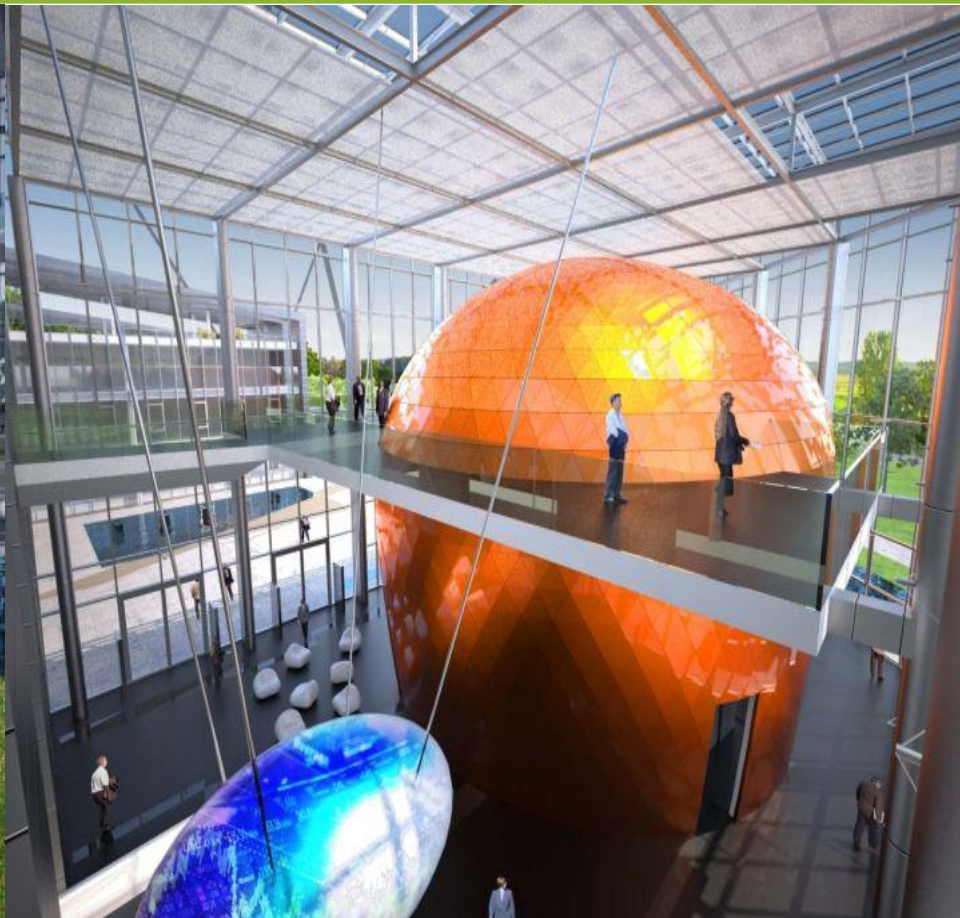


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THE AUDITORIUM – THE „BRAIN”



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INTERNAL DESIGN

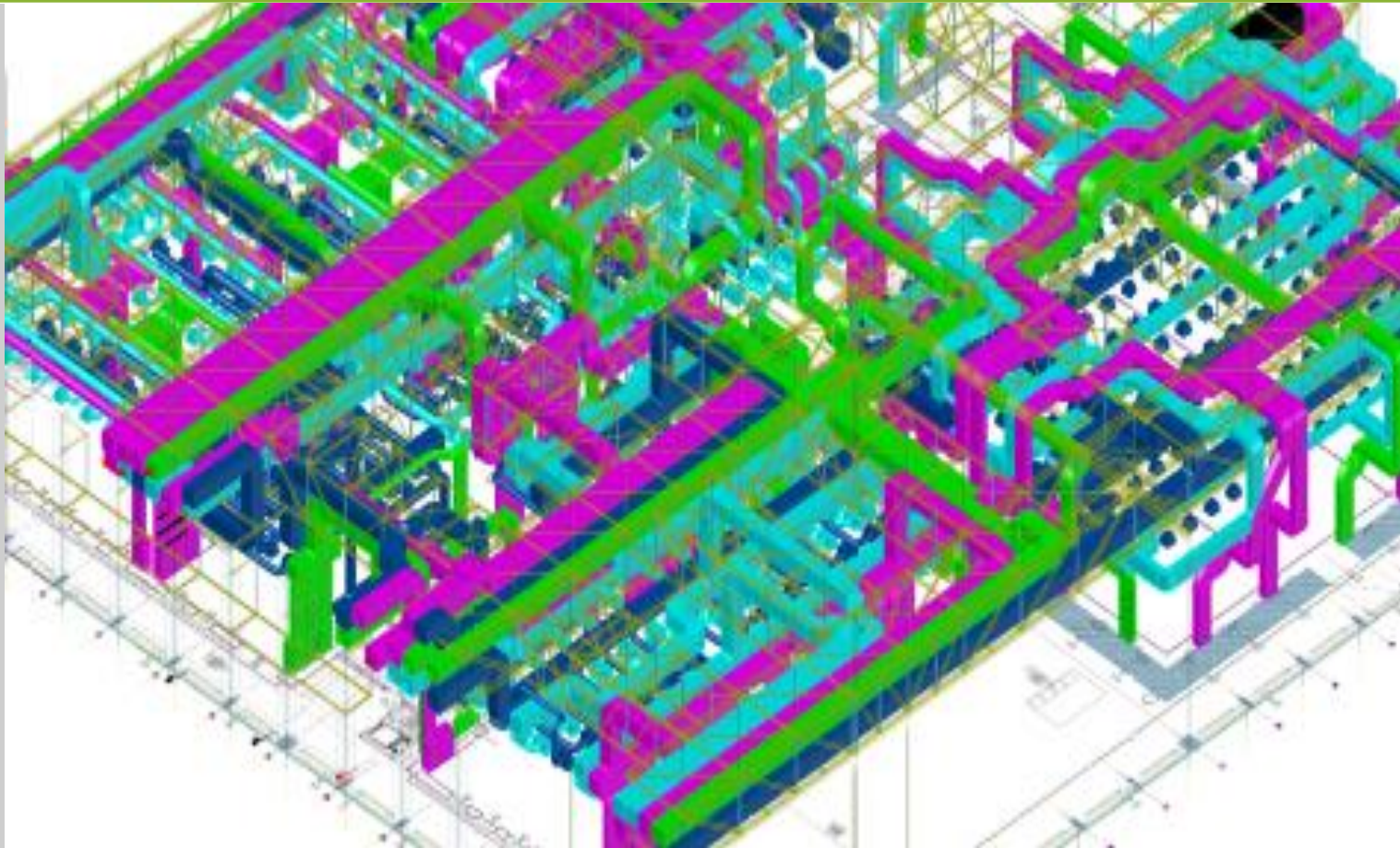


VISITOR CENTER



LIBRARY

PIPES OF THE LASER BUILDING



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SPECIAL BUILDING STRUCTURES



- Requirement for special foundation: altogether 823 piles (adds up to 14.4 km!), deepest piles - 45 m
- Removing 133 000 m³ soil
- providing 5,500 m² vibration-free base within the laser building using special cork and spring technology
- 8,000 m² of clean room (ISO 7, ISO8)
- 0.5 °C temperature discrepancy within clean rooms

Thank you for your attention!



SZÉCHENYI PLAN



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