



**PROGRAM – DRAFT**

**1<sup>st</sup> TECHNICAL WORKSHOP**

**Advanced technics/technologies in nuclear industry**

**13-14 September 2023**

as a side event of

1st Nuclear Power Industry Congress (12-13 September 2023)

----- 13 September 2023 -----

**Venue: (D17) : Centrum Informatyki AGH (IT Center of AGH),  
ul. Kawory 21, 30-055 Cracow, room 1.19-1.20**

14:00 - 15:00 Lunch

**15:00 - 19:00** THEMATIC SUBSESSIONS

Opening remarks – Andrzej SIDŁO, Ministry of Climate and Environment, Nuclear Energy Department

***I. Innovation in nuclear supply chain, megaproject management, commercial grade dedication approach***

**Moderator: Prof. Waclaw GUDOWSKI, National Center of Nuclear Research Poland/Royal Institute of Technology (KTH) Sweden**

15.10 – 15.50 *Localization strategies of nuclear projects, How to put together national competencies and global suppliers, Q/A, François MARTIN, EGIS France*

15.50 – 16.30 *Commercial Grade Dedication (CGD) of Equipment for Safety-Related Applications in the Nuclear Industry, Q/A, Artur BIAŁAS, Curtiss-Wright Nuclear Canada*

16.30 – 17.10 *Project management support: management of nuclear specific procedures, Q/A, Kirsi HASSINEN, Platom Oy Finland*

17.10 – 17.25 Coffee/Tea break

17.25-18.25 *From concepts to reality: A Journey through Nuclear Modeling and Digital Twins, Q/A, Victor RICHEL, Jérémy BOURDON, Christophe FOURNIER, Assystem France*

***II. Building information model (BIM), digitalization and innovative I&C systems based on AI (1/3).***

**Moderator: PhD Jacek MAGIERA, Cracow University of Technology**

18.25 – 19.00 *Digitalization of nuclear engineering units : Conduct digitalization experiments by employing tools and methodological building blocks for software and AI to streamline the engineering software delivery process, Q/A, Gaspard MESTROT, Framatome DTI France*

19.00 SUMMARY OF THE FIRST DAY OF THE TECHNICAL WORKSHOP



----- 14 September 2023 -----

08:00 - 08:30 Welcome coffee

**II. Building information model (BIM), digitalization and innovative I&C based on AI (2/3)**

8.30 – 8.50 Use of BIM in public tenders, Polish perspectives, Q/A, Paweł Łaguna, **ECCBim Poland**,

8.50 – 09.30 The use of BIM for Polish nuclear project, Q/A, Agata ŻYTNIAK **Bechtel USA**

09.30 – 10.10 Use of BIM in nuclear, digital continuity from design to erection of nuclear units, Q/A, Szymon FRASZCZYK, **Egis Poland**

10.10 – 10.50 Use of BIM/IFC in nuclear, Q/A, Paweł PRUS, **BYLOR**

10.50 – 11.05 Coffee/Tea break

**III. Advanced manufacturing and welding technologies applied in the nuclear industry**

**Moderator: Prof. Jerzy NIAGAJ, Upper Silesia Technology Institute, Łukasiewicz Research Network**

11.05 – 11.45 High-Tec technologies applied in nuclear industry: “Explosive cladding - example of multilayer materials' surface joining technics - application in NPP”, Q/A, Sebastian KOKOT, **Explomet Poland**

11.45 – 12.25 Steel structures delivery for nuclear sector – case study on Hinkley Point C, Q/A, Mariusz CHMIEST, **PUT Firmus Poland**

**IV. Modularization in nuclear projects**

**Moderator: Andrzej SIDŁO, Ministry of Climate and Environment, Nuclear Energy Department**

12.25-13.05 AP1000 Plant Modular Construction, Q/A, Sean Jones, **Westinghouse USA**

13:05 - 14:00 Lunch break

14.00 – 14.40 New construction technics – how to accelerate construction of SMR and large scale nuclear projects using modular steel-concrete solution? Q/A, Miquel HUGUET AGUILERA, **Egis France**

**V. Building information model (BIM), digitalization and innovative I&C based on AI (3/3)**

14.40-15.20 Challenges and Opportunities of AI on nuclear safety : focus on AI embedded algorithms in a new generation of safety automation systems, Q/A, Mathieu SEGOND, **Framatome France**,

15.20 – 15.40 BIM and drones in action - Safety culture is an attitude, Q/A, Joonas TUOMINEN, **Jotus Oy, Finland**

15.40 – 15.55 Coffee/Tea break

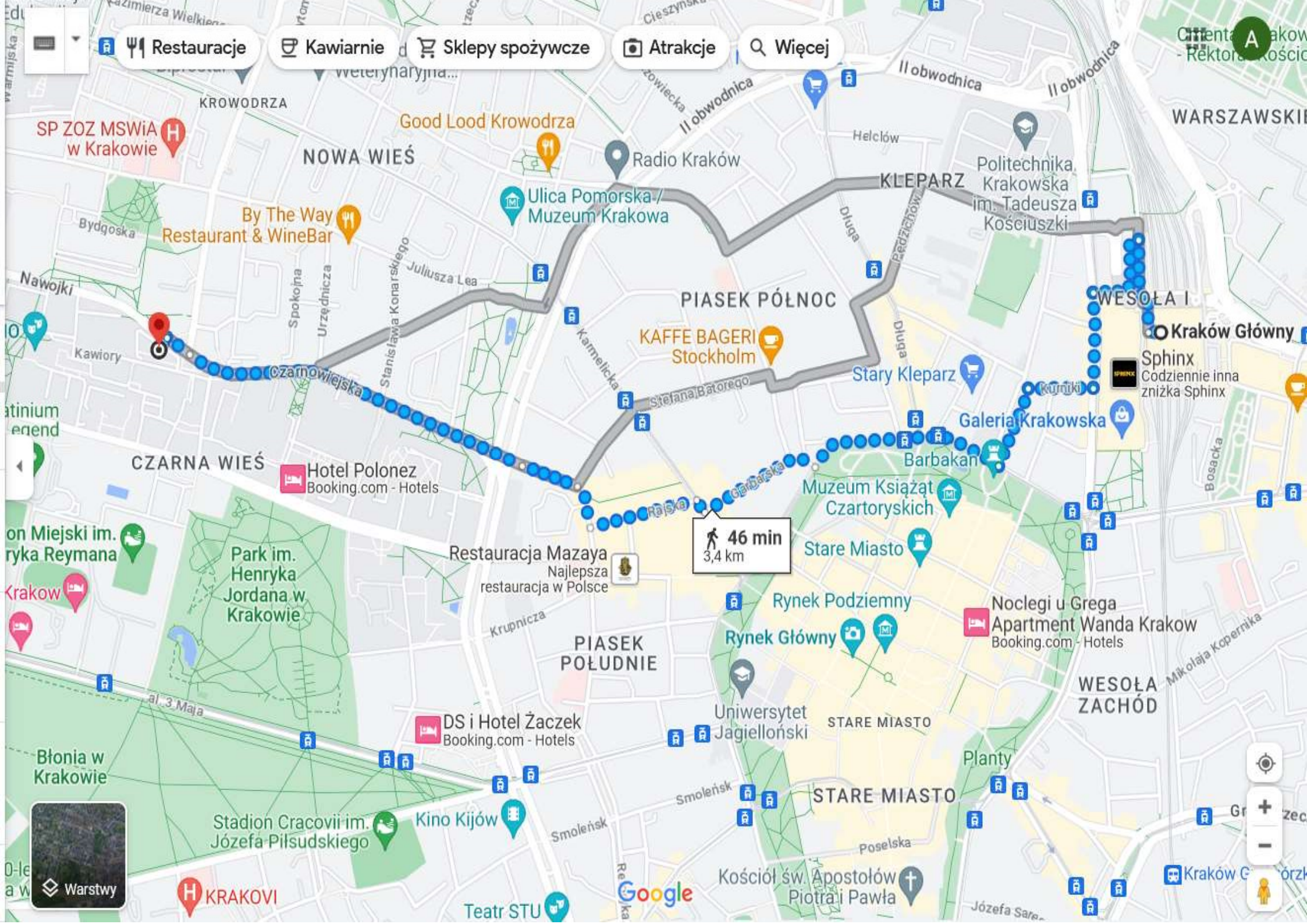
15.55 – 16.35 Sweco BIM based nuclear services, Q/A, Fionán O'Carroll, **SWECO Finland**

16.35 – 17.15 How BIM can support nuclear projects alongside all project cycle, Q/A, Véronique REMANDE, **EGIS France**

17.15 – 17.55 BIM and drones in action - Integrated aerial data to your system, Q/A, Joonas TUOMINEN, **Jotus Oy, Finland**

17:55 SUMMARY and END OF TECHNICAL WORKSHOP





Restauracje Kawiarnie Sklepy spożywcze Atrakcje Więcej

SP ZOZ MSWiA w Krakowie

By The Way Restaurant & WineBar

Good Lood Krowodrza

Ulica Pomorska / Muzeum Krakowa

Radio Kraków

KLEPARZ

Politechnika Krakowska im. Tadeusza Kościuszki

PIASEK PÓLNOC

KAFFE BAGERI Stockholm

WESOŁA I

Kraków Główny

Sphinx Codziennie inna zniżka Sphinx

CZARNA WIEŚ

Hotel Polonez Booking.com - Hotels

Stary Kleparz

Galeria Krakowska

46 min 3,4 km

Muzeum Książąt Czartoryskich

Stare Miasto

on Miejski im. ryka Reymana

Park im. Henryka Jordana w Krakowie

Restauracja Mazaya Najlepsza restauracja w Polsce

Rynek Podziemny

Rynek Główny

Noclegi u Grega Apartment Wanda Krakow Booking.com - Hotels

PIASEK POŁUDNIE

Uniwersytet Jagielloński

STARE MIASTO

WESOŁA ZACHÓD

Błonia w Krakowie

Stadion Cracovii im. Józefa Piłsudskiego

Kino Kijów

STARE MIASTO

Planty

Warstwy

KRAKOWI

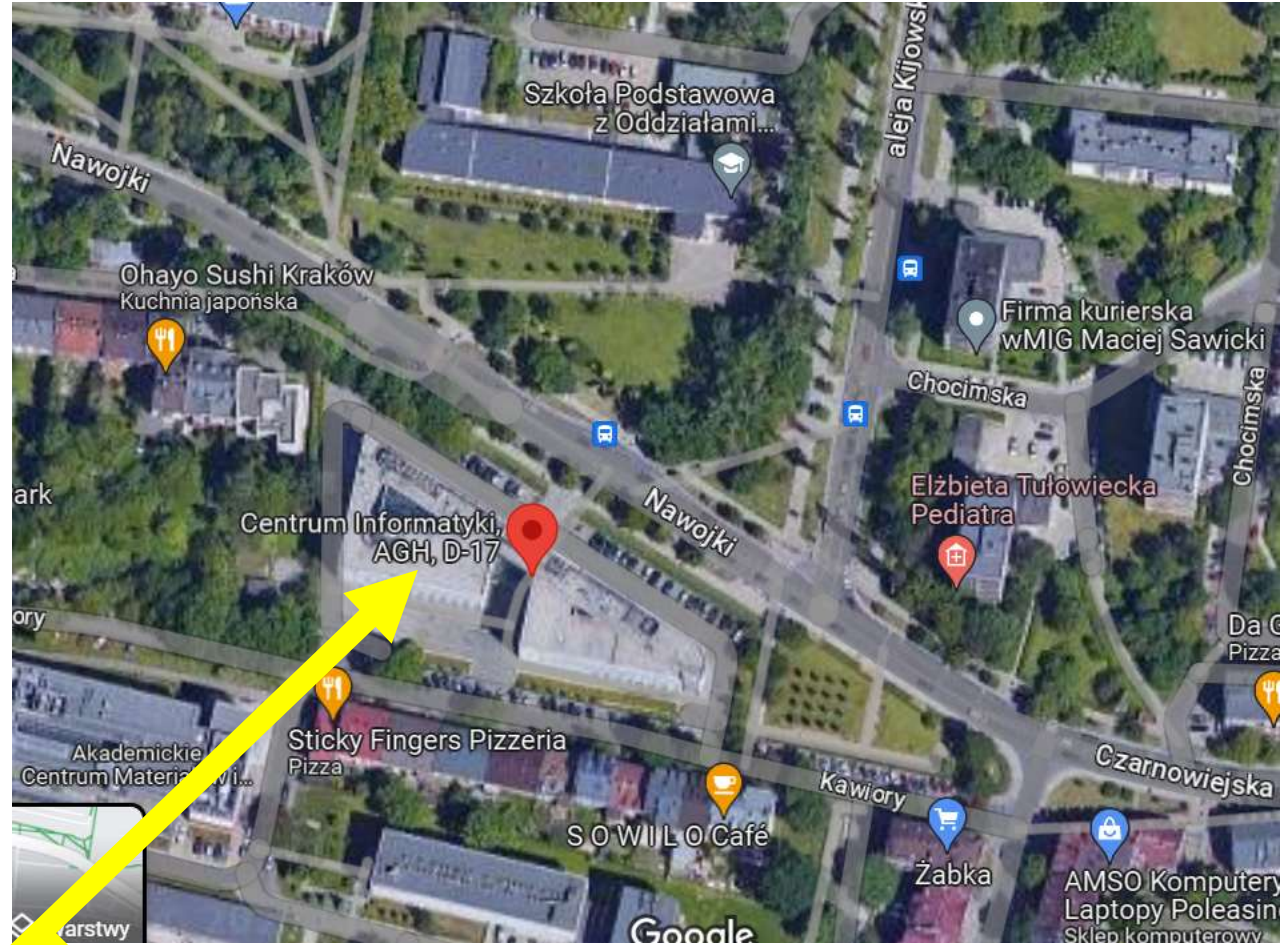
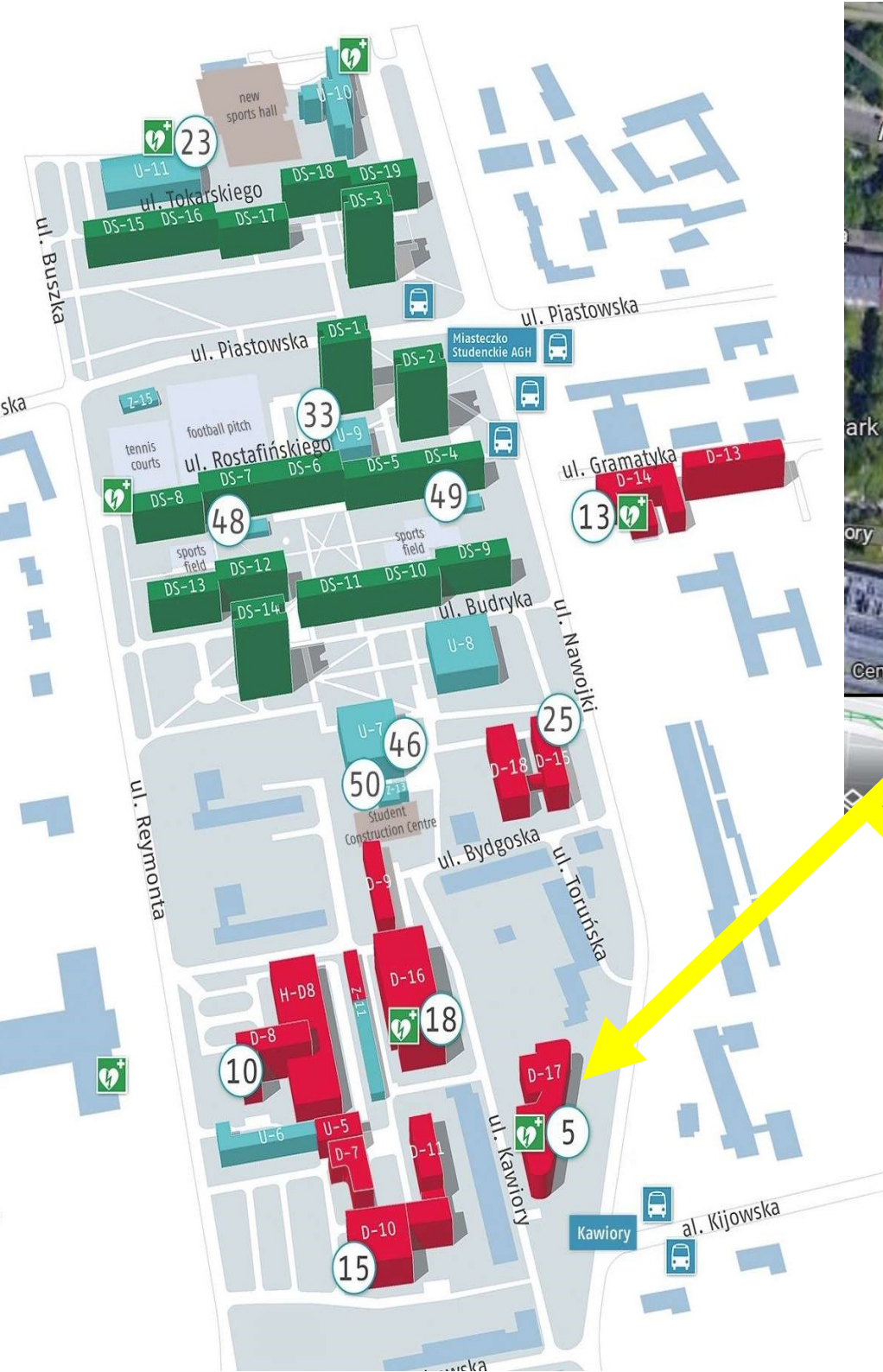
Teatr STU

Google

Kościół św. Apostołów Piotra i Pawła

Kraków Główny





GPS coordinates: 50.068147, 19.912597

