

Geo-based Data Integration (GDI)

M. Barletta | IAEA | 2018-11-07

IAEA International Safeguards Symposium, Vienna, Austria

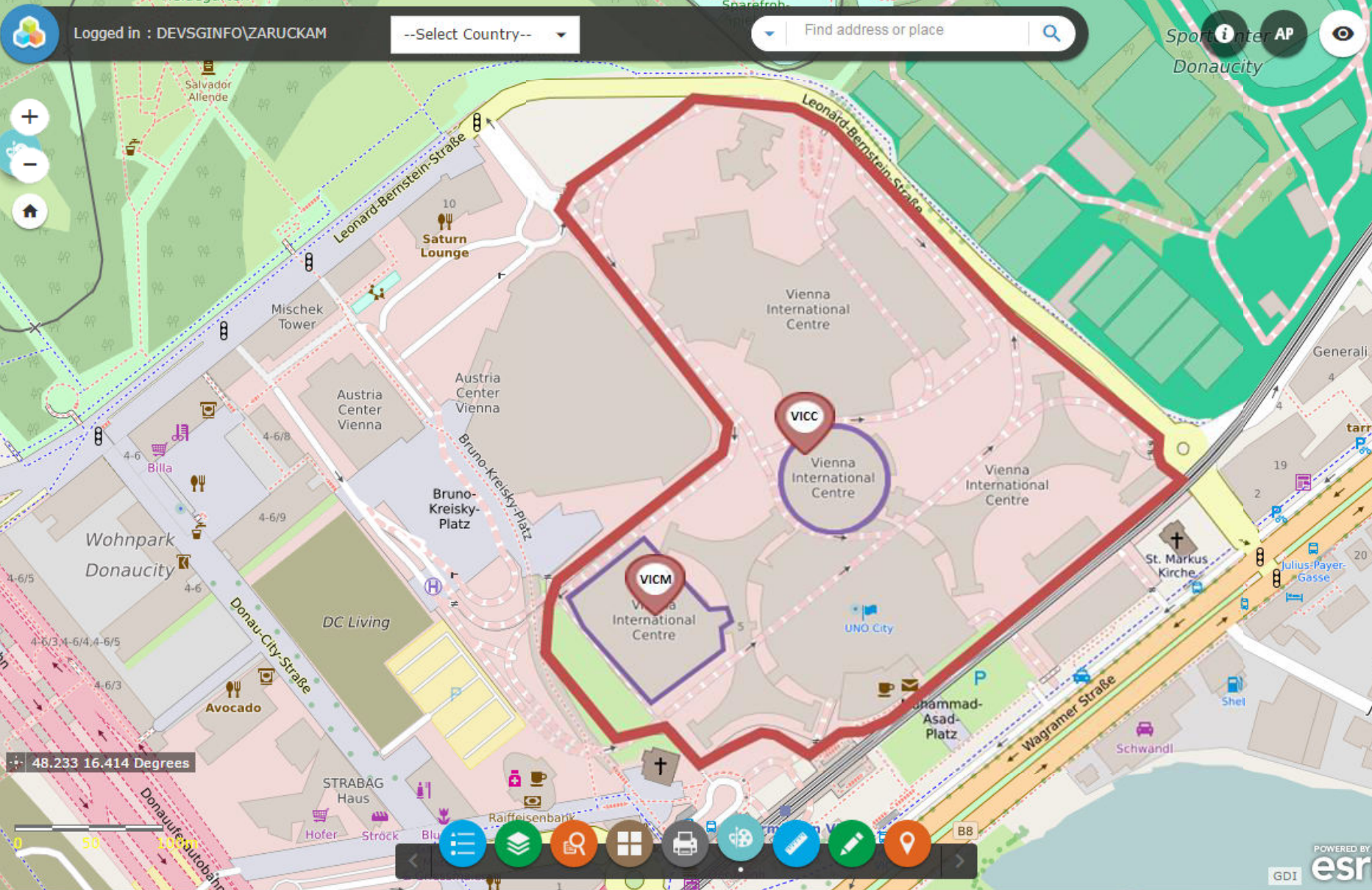
GDI

- For use by the IAEA as an on-site inspection agency verifying materials and activities in physical locations in States under Safeguards (SG), nearly all SG-relevant information has essential geospatial attributes
- GDI provides interactive, layered maps in a user-friendly collaborative environment for IAEA inspectors, analysts and managers to access, utilize and share diverse types and sources of information regarding nuclear facilities, sites, and other locations and activities relevant to implementation of States' respective Safeguards agreements
- GDI operates in the secure Integrated Safeguards Environment (ISE); access limited and controlled via Access Management (AM) system

GDI

- Operating in the ISE environment and integrated with other SG applications, GDI accesses nearly all SG information
- GDI platform enables information integration, analysis, and activity planning to better integrate work in headquarters with in-field verification activities
- GDI near-ideal platform for accessing IAEA and open-source (OS) multimedia information (photographs, videos, site maps, floorplans, diagrams, schematics, process flowsheets)
- GDI will enable long-term, contextualized knowledge management over the lifetimes of nuclear facilities, sites and locations

GDI simulation



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Sport Center AP

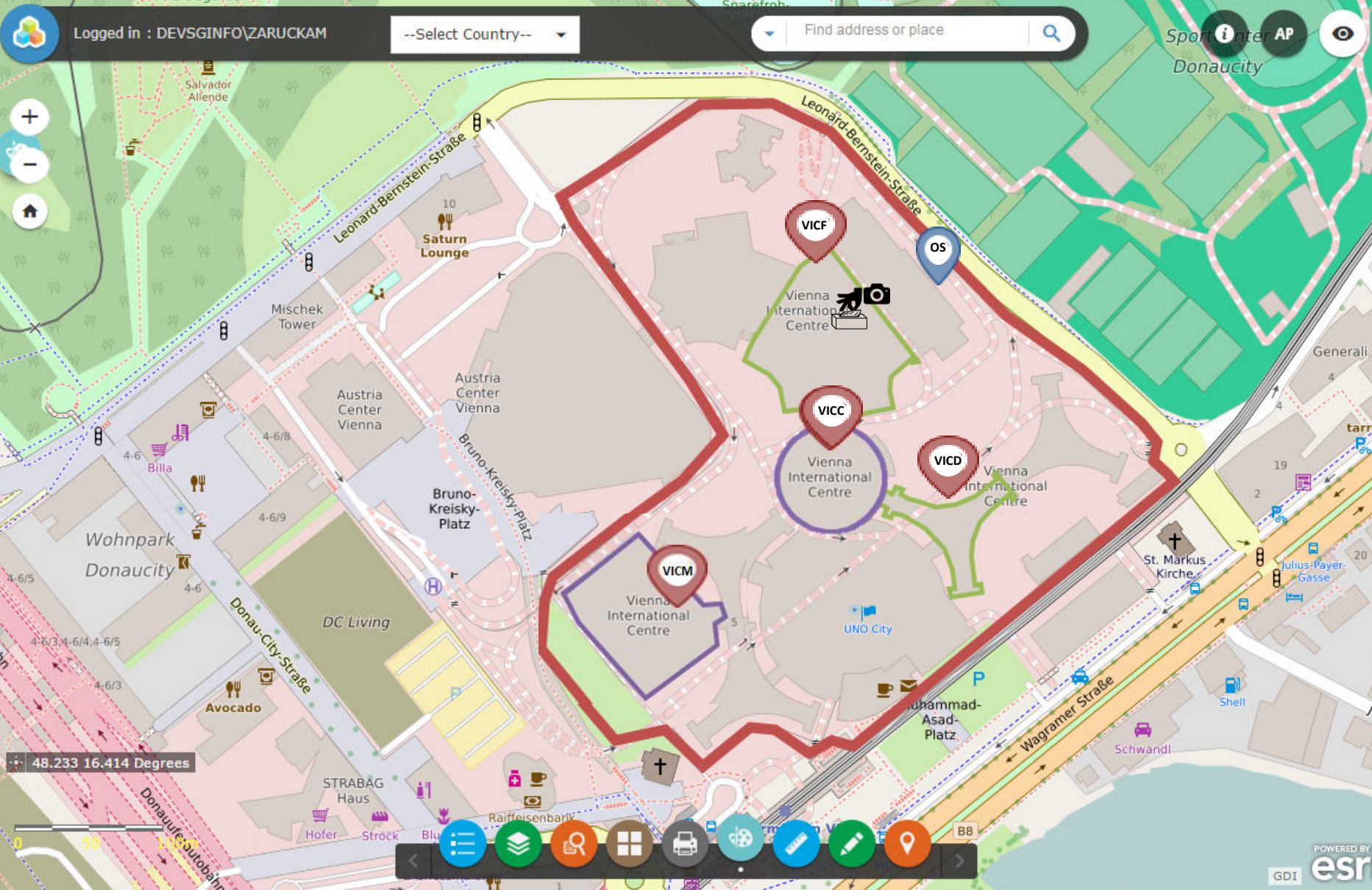
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ES

Swipe Sampling Results
Routine, VI-16/001

Site: VIC Vienna International Centre Nuclear Complex
 Sample Collection Date: 12 July 2016
 Sample Series: 67889

Summary of Analytical Results
 Swipe samples (series 67889):
 Sample screening by HRGS and XRF detected uranium and its decay products on samples -11, -14, -22.

HRGS results (average gamma activities perswipe) and XRF results (uranium content in a swipe randomly selected from the sample) are presented in Table 2.

Table 2: HRGS and XRF results
 Average activity by HRGS, Bq/Swipe swipe Estimated U_{iso} g

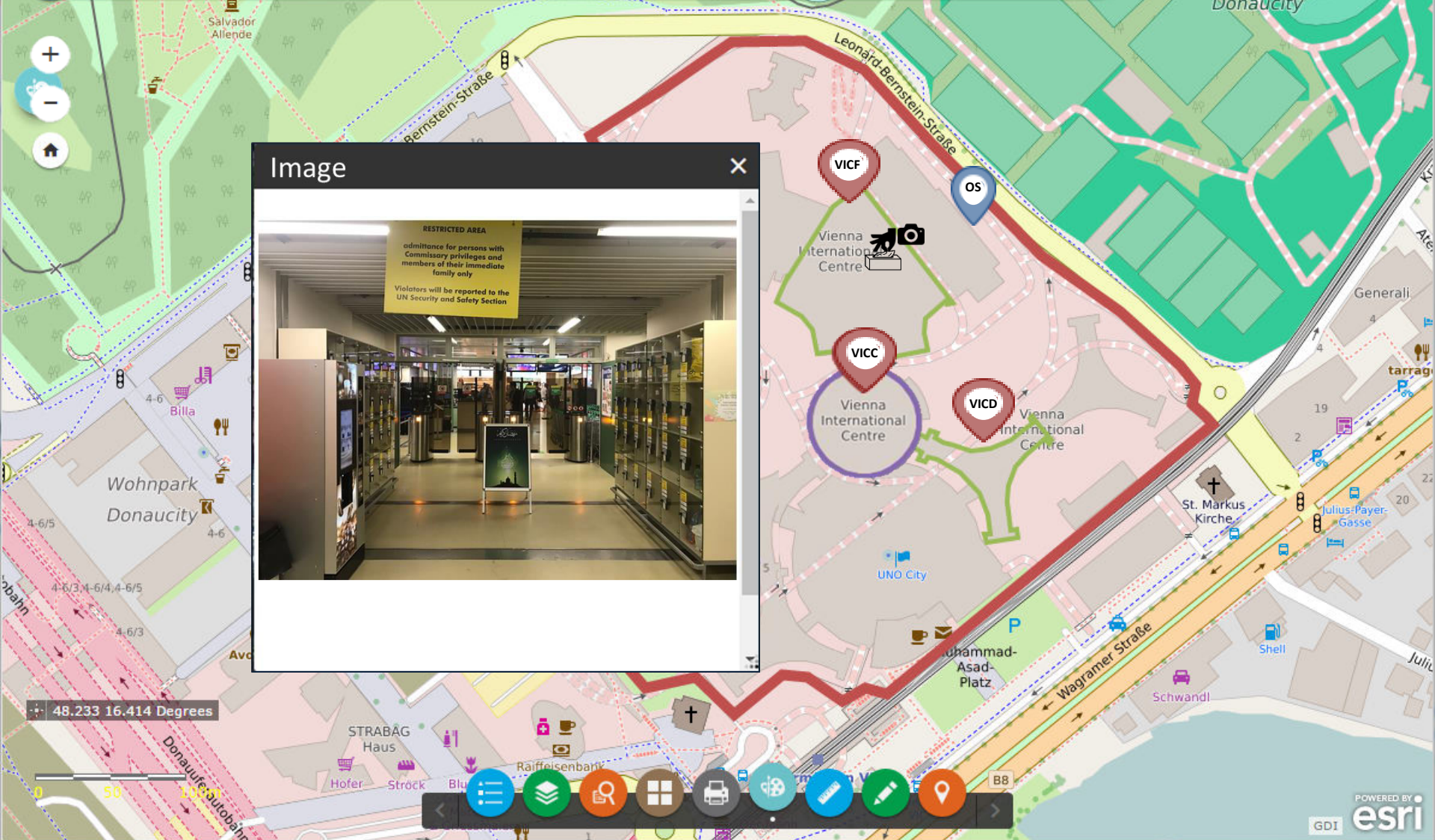
	Cs-137	Nb-95	Pa-234	Tl-231	Tl-234	U-234	U-235	U-238
67889-11 (Access corridor)	0.31						0.016	25
67889-14 (Room 12)	0.014			0.67		0.019		54
67889-22 (Ventilation)	0.017			0.47		0.019		54

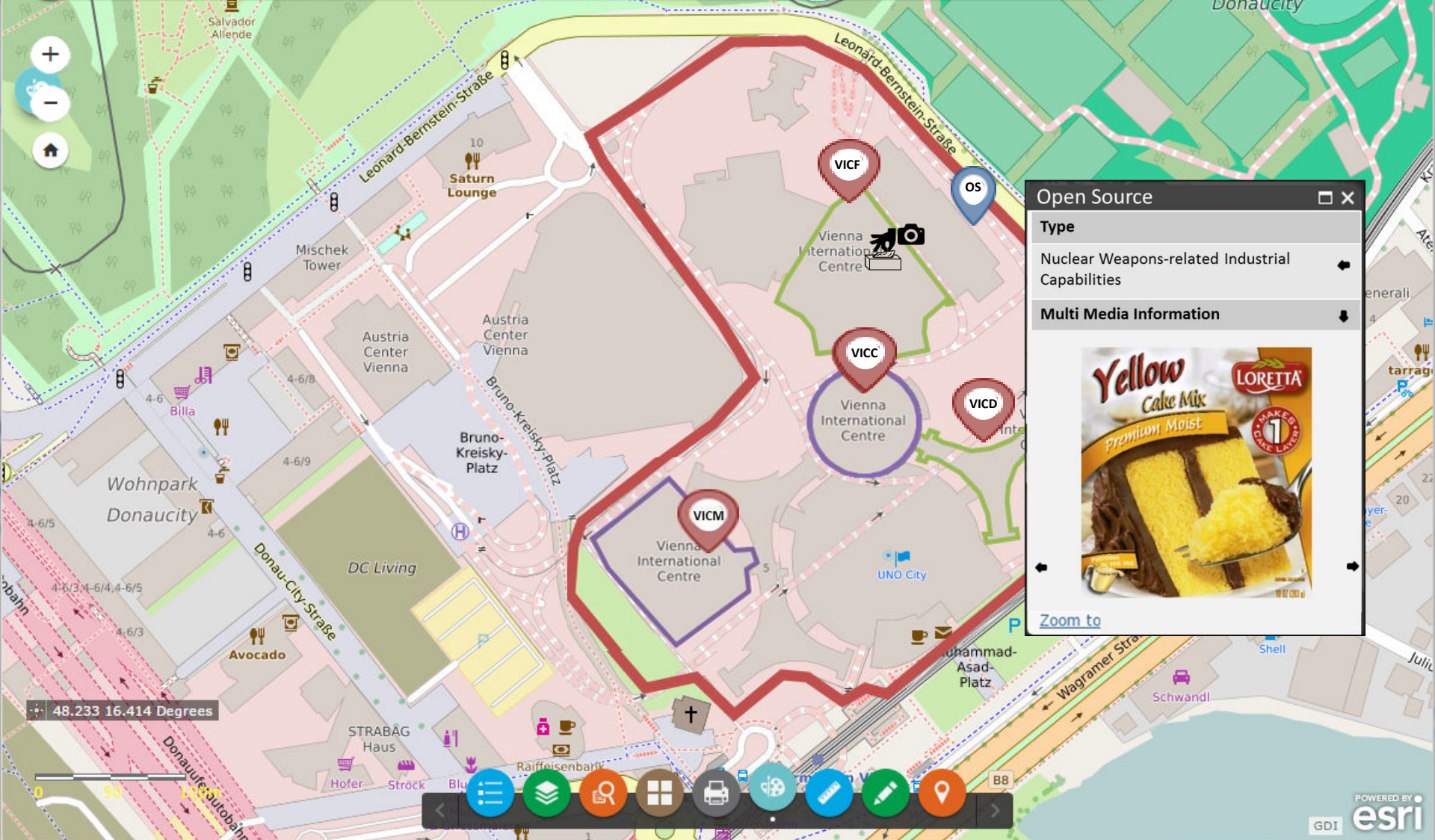
Particles of anthropogenic NU and various DU were detected in the swipe samples. Results of the uranium isotopic particle and bulk analysis are presented in Table 3. Bulk Pu measurement results are listed in Table 4.

Conclusions
 The presence of the anthropogenic NU is inconsistent with the declared activities on the site and should be clarified.

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Open Source

Type

Nuclear Weapons-related Industrial Capabilities

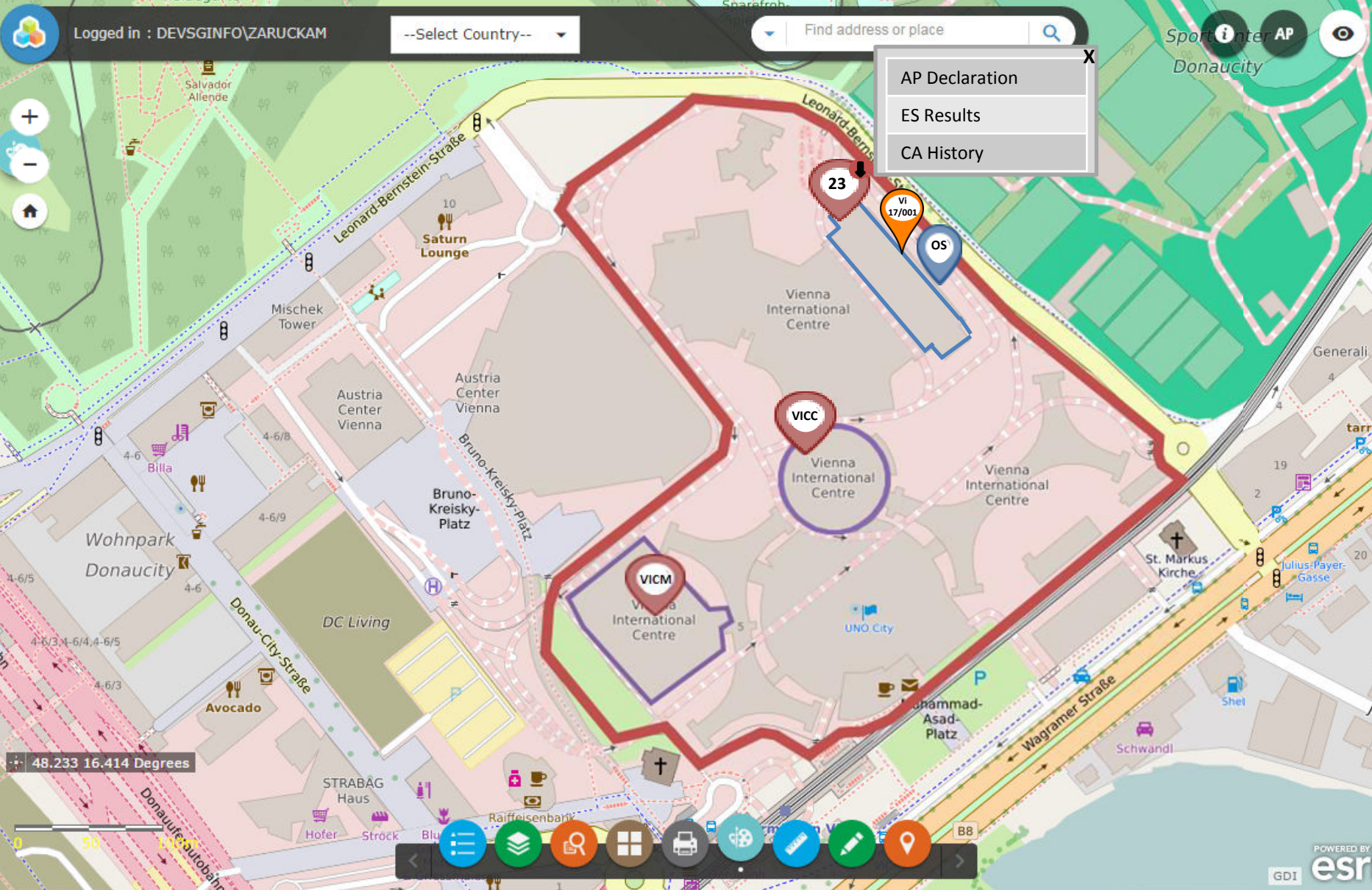
Multi Media Information



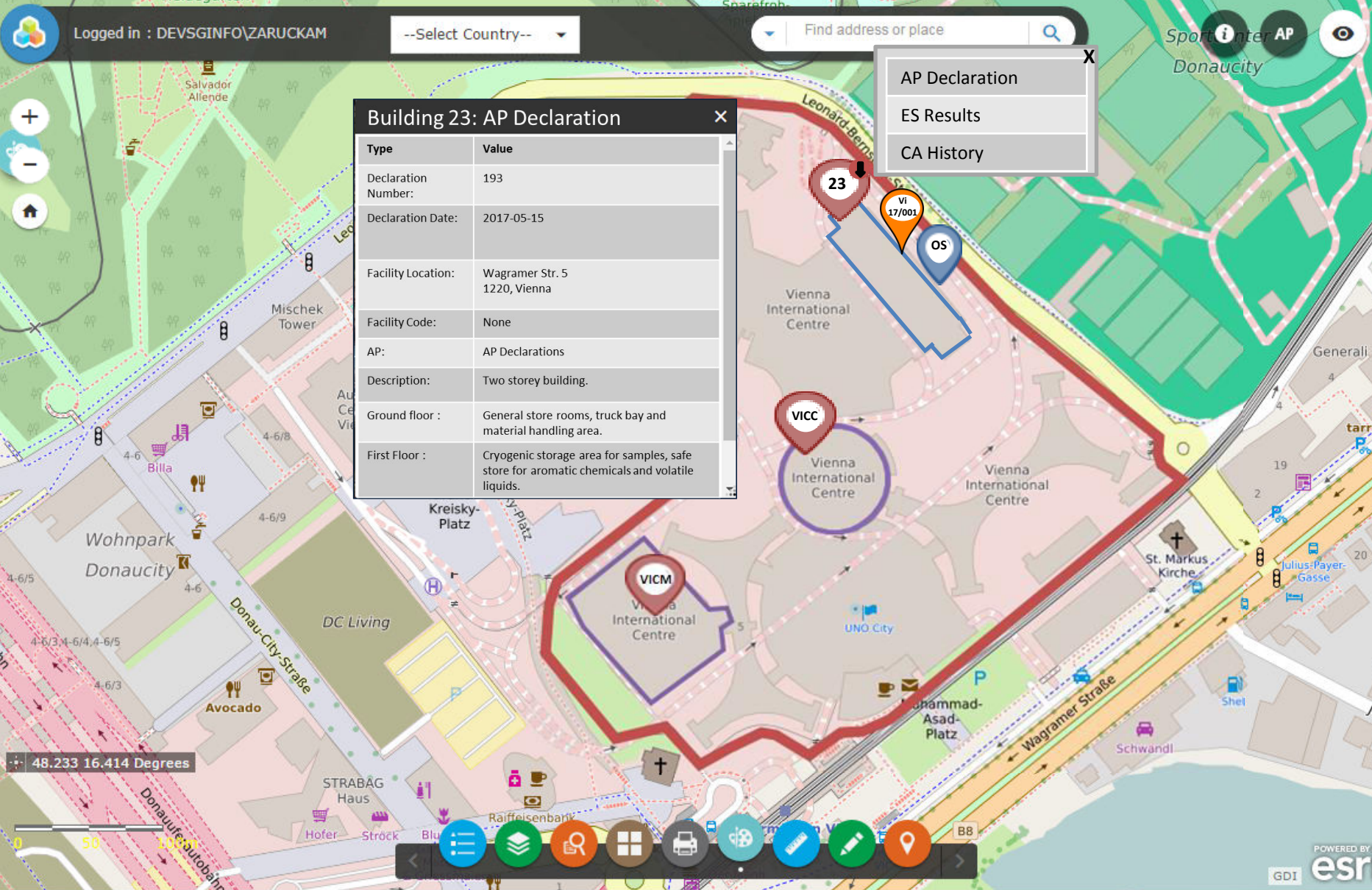
Zoom to

48.233 16.414 Degrees





- AP Declaration
- ES Results
- CA History



Building 23: AP Declaration

Type	Value
Declaration Number:	193
Declaration Date:	2017-05-15
Facility Location:	Wagramer Str. 5 1220, Vienna
Facility Code:	None
AP:	AP Declarations
Description:	Two storey building.
Ground floor :	General store rooms, truck bay and material handling area.
First Floor :	Cryogenic storage area for samples, safe store for aromatic chemicals and volatile liquids.

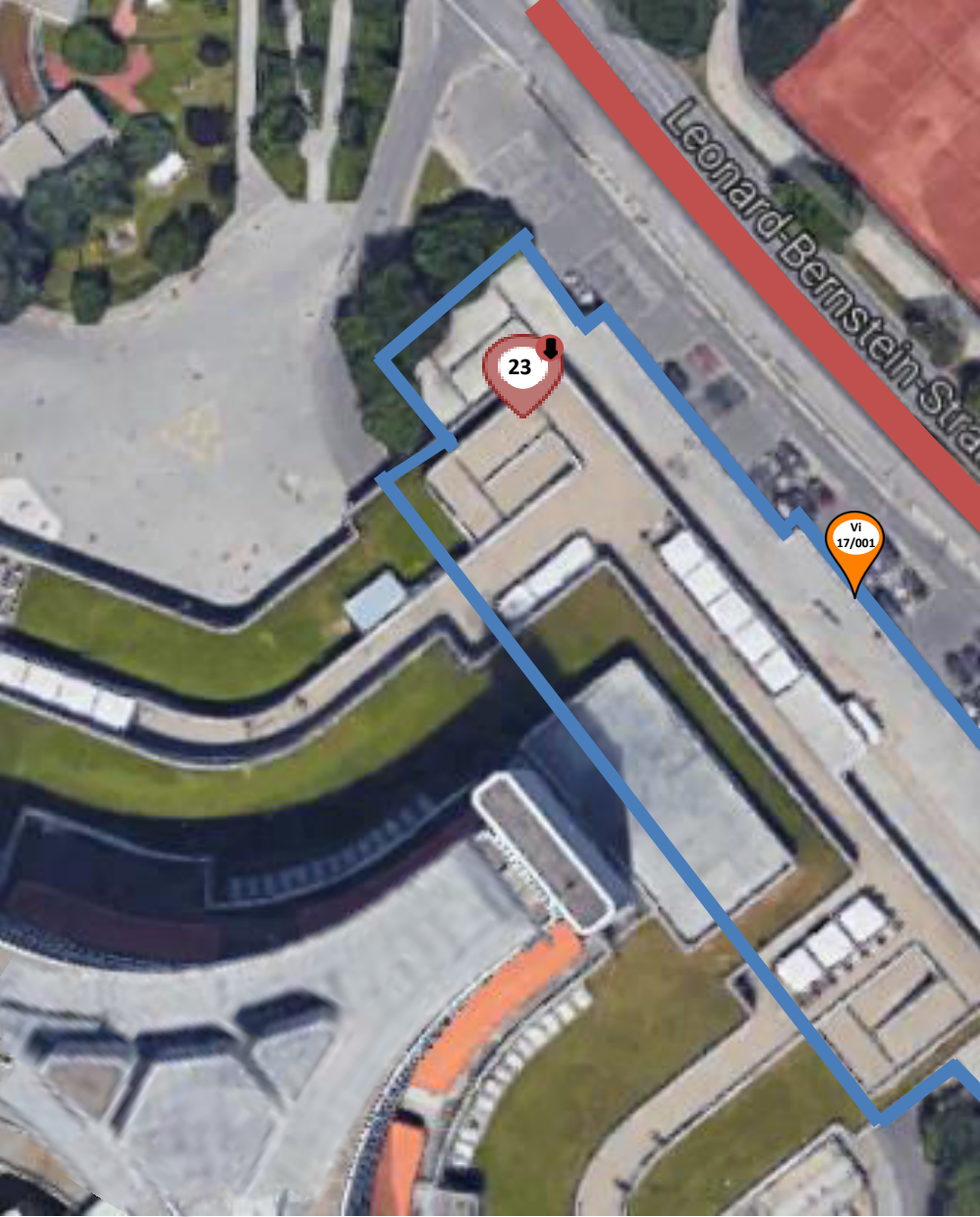
- AP Declaration
- ES Results
- CA History

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Find address or place





CA: Briefing Summary

CA Briefing Summary

VI-17/001

Site: VIC Vienna International Centre Nuclear Complex

Planned date for Access: 2017-08-25

Planned time for notification: 2008-12-25, 09:00 local time

AP References:

- 5a(i): Any place on a Site
- 2a(iii): Descriptions of buildings on a Site and Site map
- 4a(i): To assure the absence of undeclared nuclear material and activities
- 4b(ii): 2 hrs in conjunction with DIV or inspection

Activities as per Article 6a

Specific Locations:

Building 23