

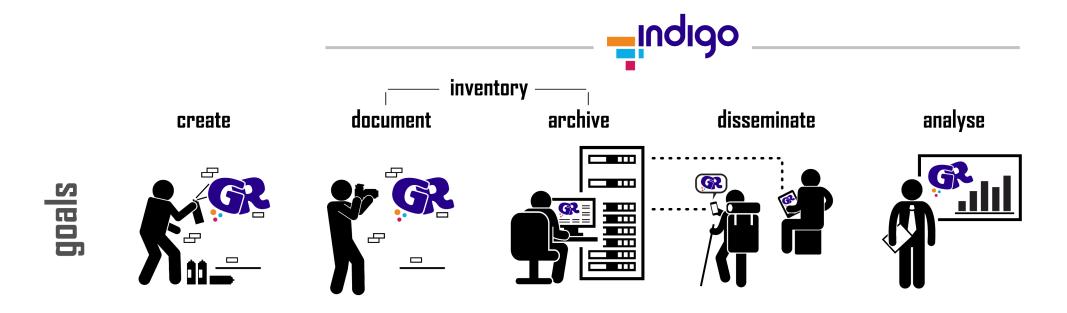
Discovering & recording new graffiti within project INDIGO

Geert Verhoeven | Jona Schlegel Martin Wieser | Stefan Wogrin

projectindigo.eu









create





disseminate

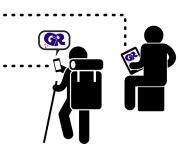
analyse

goals











creation



acquisition



processing



management



dissemination



analysis











goals

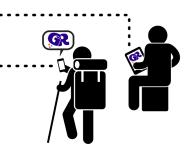


document



archive

inventory



disseminate



analyse

creation







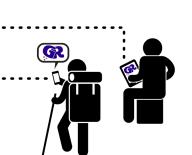
processing



management



dissemination



analysis





research pillars



creation





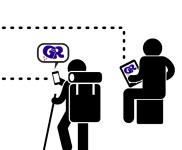
processing



management



dissemination



analysis





research pillars



creation



acquisition



processing



management



dissemination



analysis





this talk

acquisition

creation



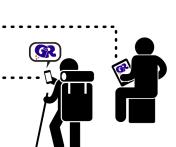
processing



management



dissemination



analysis





colour processing [Adolfo]

orthorectification [Benjamin]

this talk

creation

acquisition

processing



dissemination

analysis



researc













thesaurus [Jona & Massimiliano]

ontology & spatial database [Nina]

colour processing [Adolfo]

orthorectification [Benjamin]

this talk

creation



acquisition



processing



management



dissemination



analysis







archive [Massimiliano]

thesaurus [Jona & Massimiliano]

ontology & spatial database [Nina]

this talk

acquisition

creation

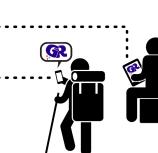
esearc









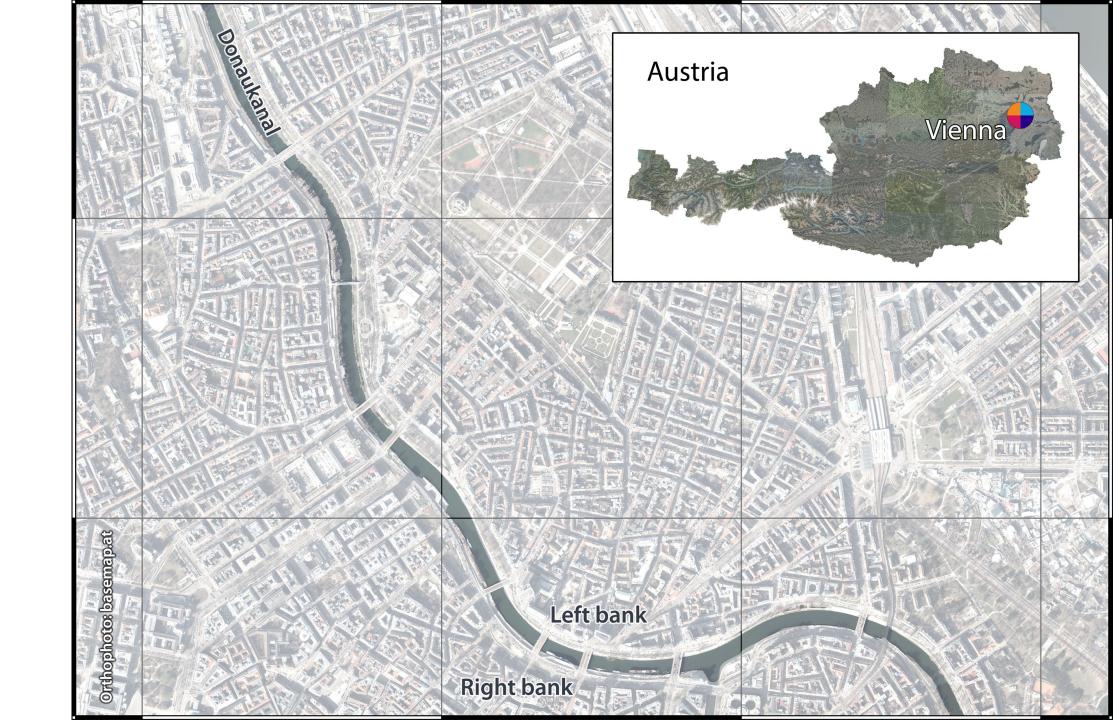


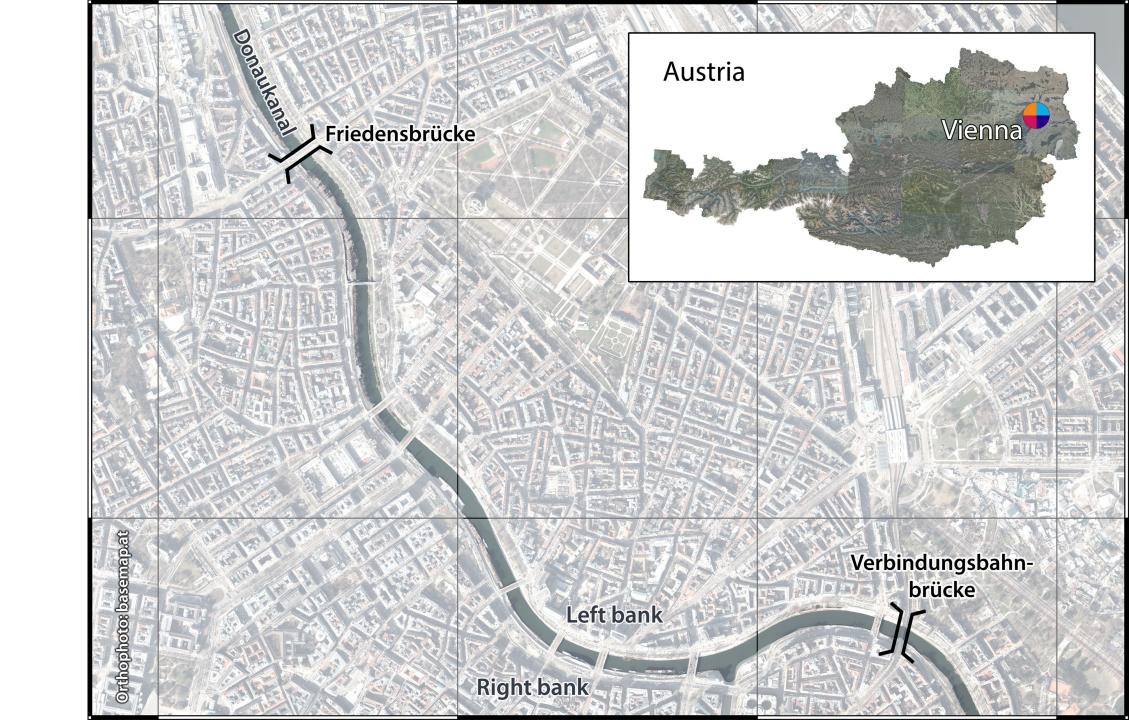
dissemination



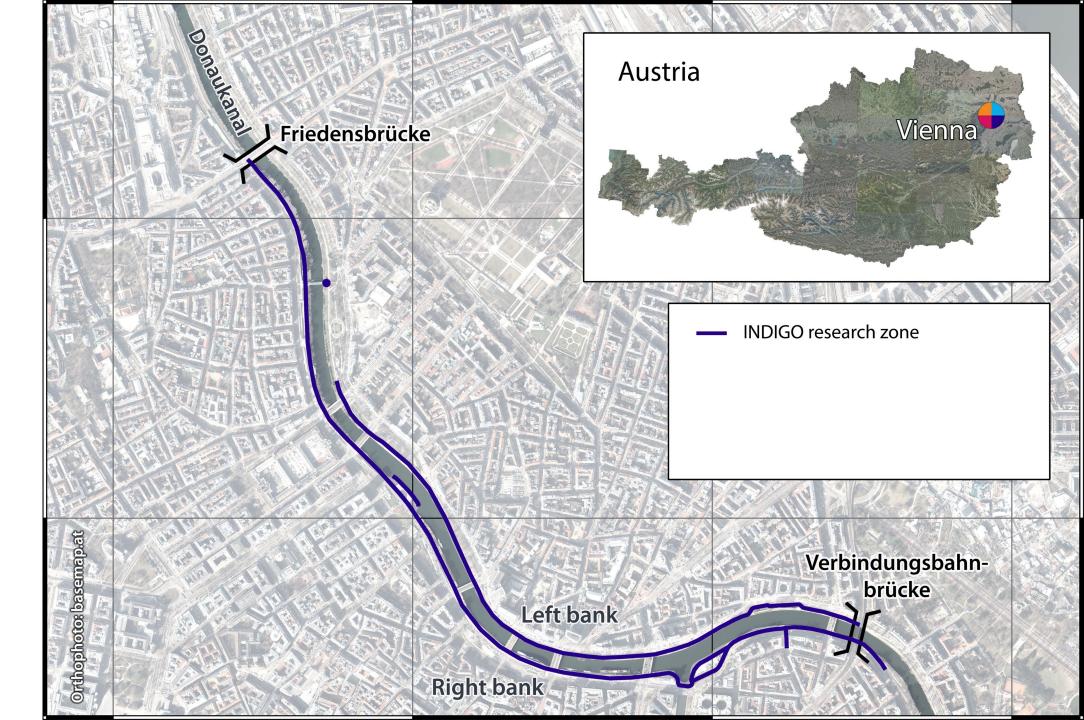






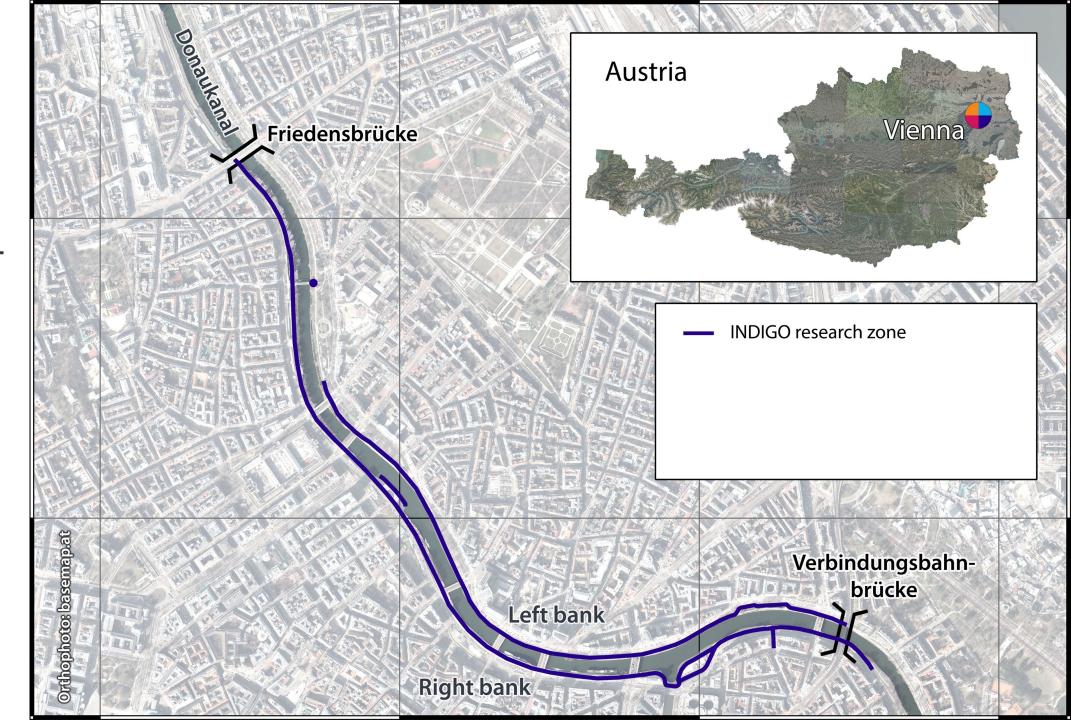


STRETCH 3.3 km



STRETCH 3.3 km

LEFT RIGHT



3.3 km

LEFT RIGHT



3.3 km

LEFT RIGHT

UP UP

DOWN DOWN

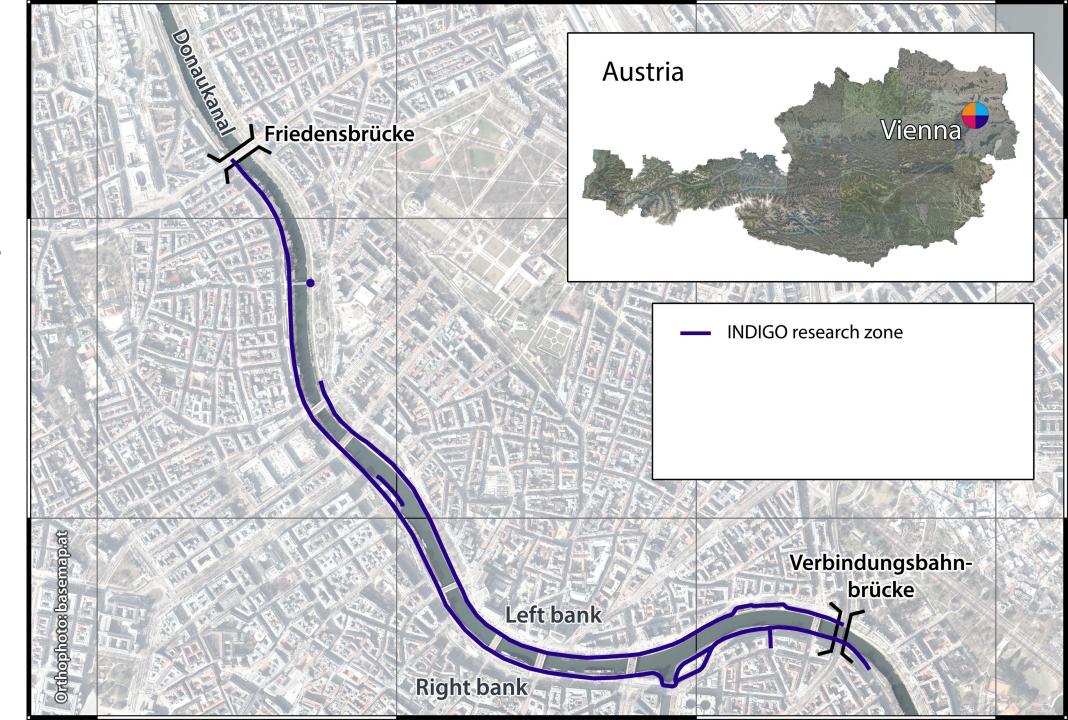


3.3 km

LEFT RIGHT UP UP

3.2 km 5.3 km

DOWN DOWN



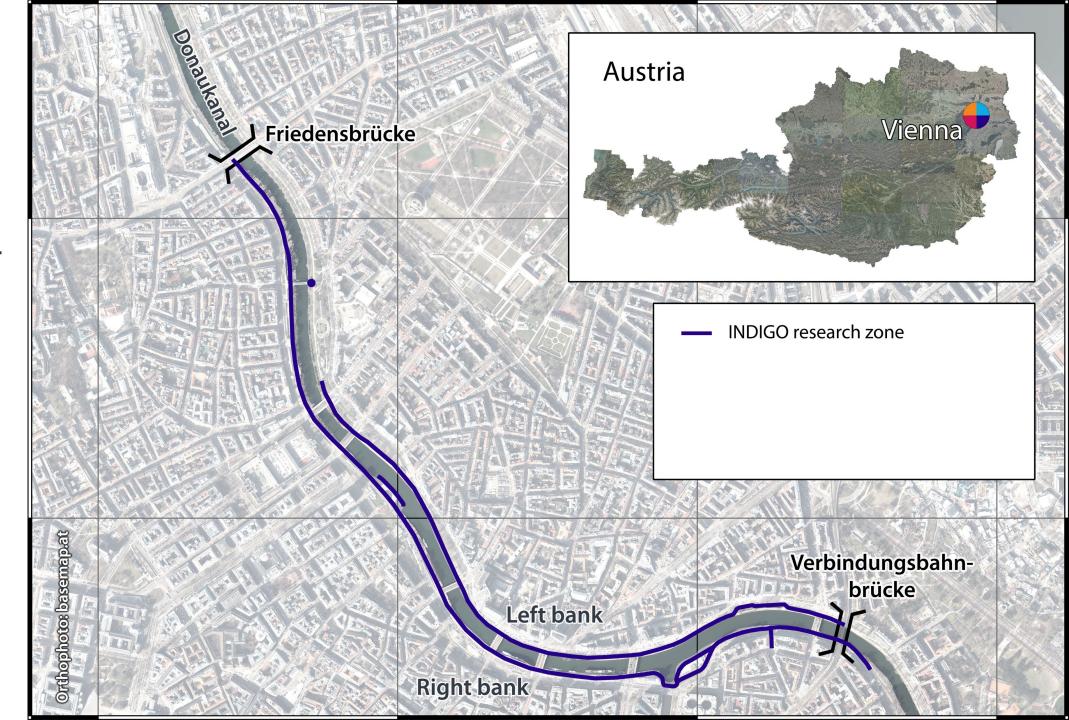
3.3 km

LEFT RIGHT UP UP

3.2 km 5.3 km

DOWN DOWN

2.1 km 2.3 km



3.3 km

LEFT RIGHT

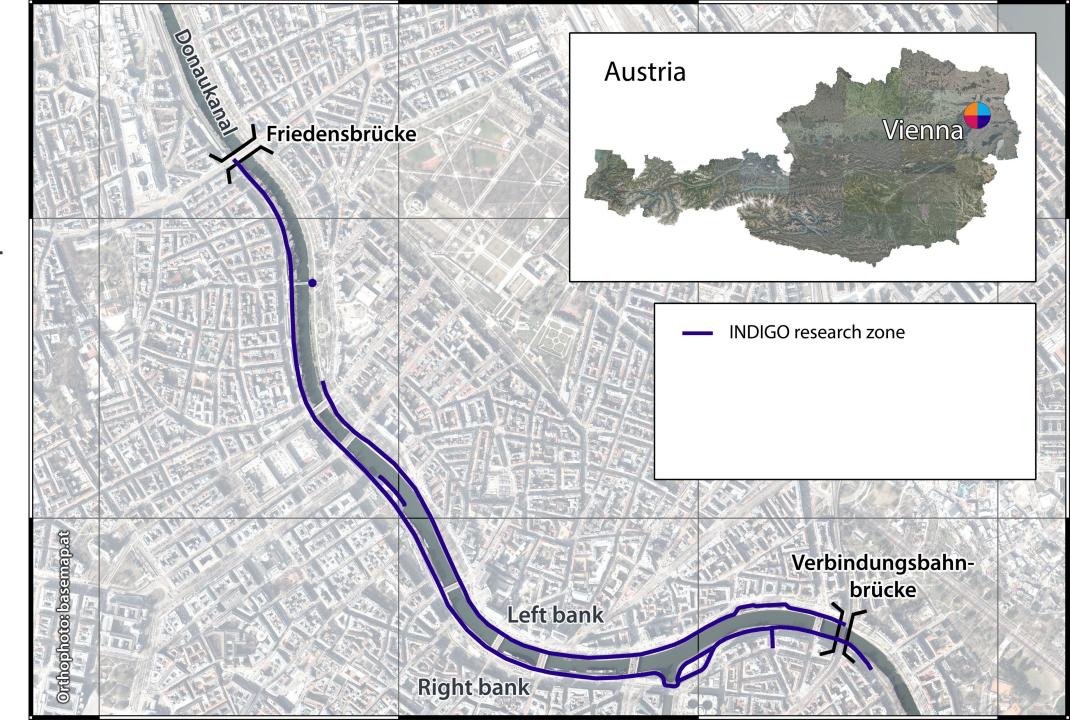
UP UP

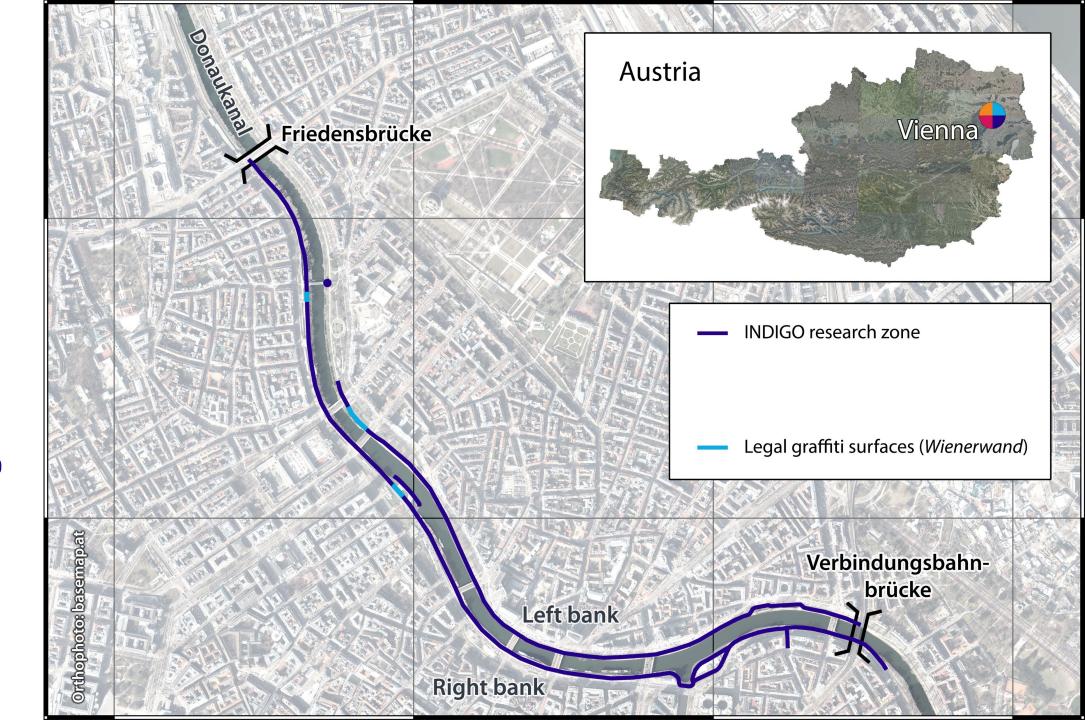
3.2 km 5.3 km

DOWN DOWN

2.1 km 2.3 km

MONITORED SURFACES





MONITORED SURFACES

Donaukanal Austria Vienna Friedensbrücke INDIGO research zone Legal graffiti surfaces (Wienerwand) Orthophoto: basemapat Verbindungsbahnbrücke

Right bank

Left bank

LEGAL SURFACES

0.3 km

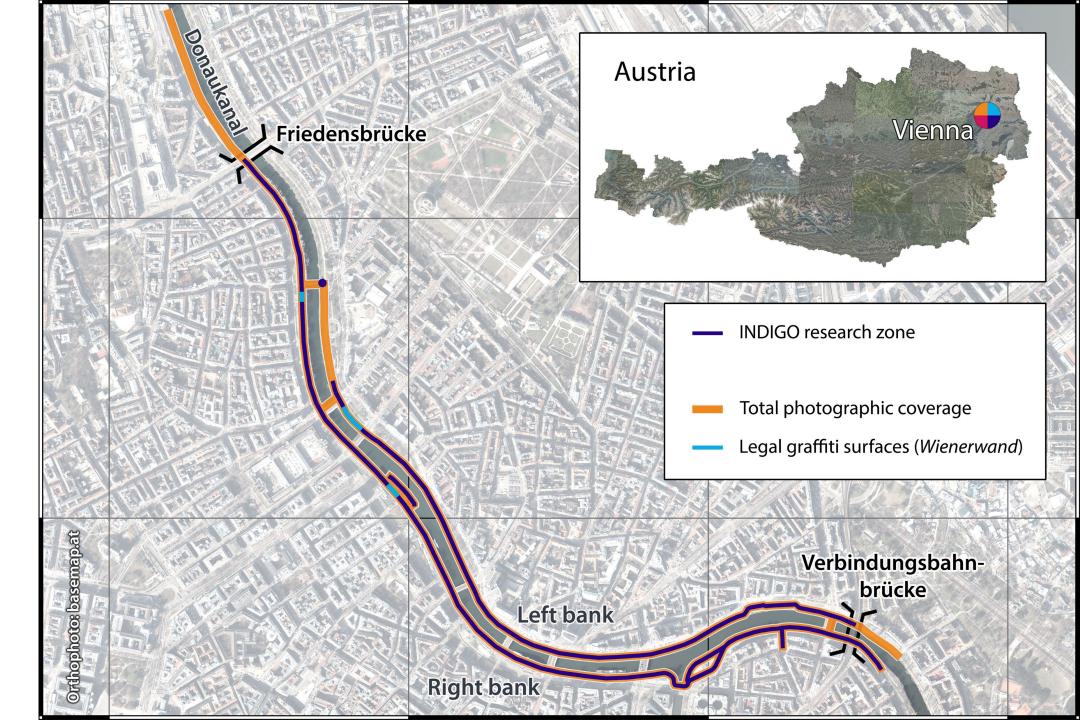
MONITORED SURFACES

14.0 km

LEGAL SURFACES

0.3 km

MONITORED SURFACES

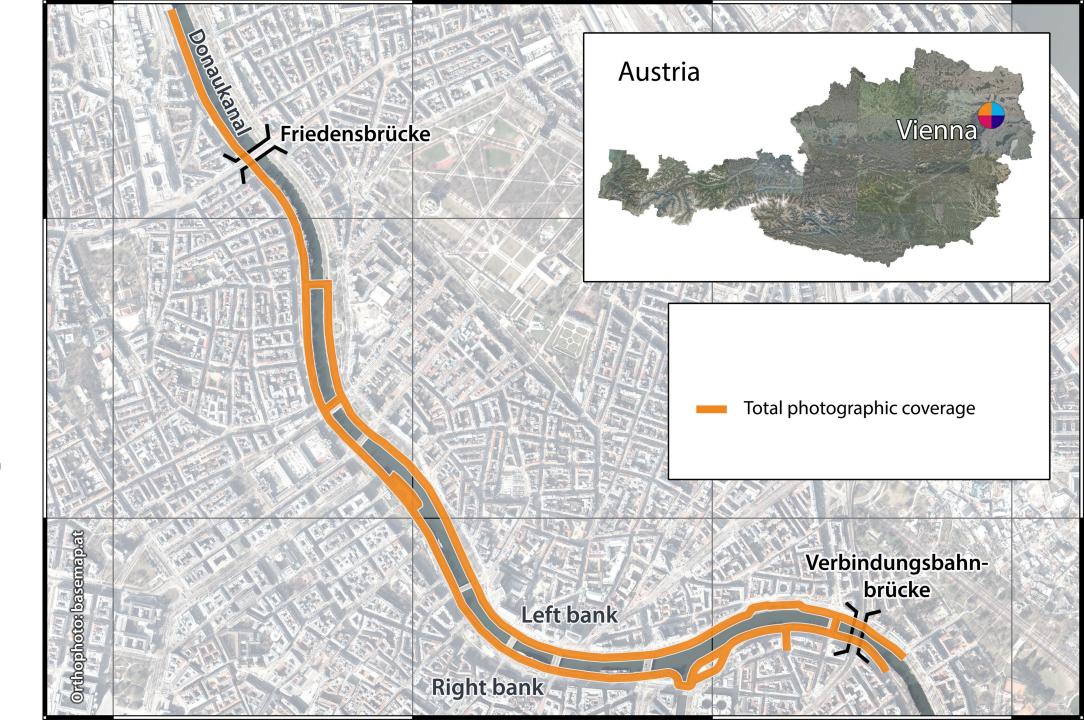


14.0 km

LEGAL SURFACES

0.3 km

MONITORED SURFACES





Date	Camera	Lens	Mean GSD	Acquisition time	Image count
30/09/2021 01/10/2021	Nikon D750 (24.2 MP $p = 5.95 \mu m$)	Nikon AF-S NIKKOR 85mm 1:1.8 G @ f/5.6	3.6 mm	3 h 45 min 3 h 20 min	2065 2544





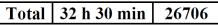
Date	Camera	Lens	Mean GSD	Acquisition time	Image count
			GSD	time	Count

26/10/2021				7 h	6042
27/10/2021	Nikon Z 7II	Nikon NIKKOR Z	0.9	7 h 45 min	6591
28/10/2021	$p = 4.33 \mu m$	20mm f/1.8 S @ f/5.6	mm	3 h 40 min	2856
29/10/2021				7 h	6608





Date	Camera	Lens	Mean GSD	Acquisition time	Image count
30/09/2021 01/10/2021	Nikon D750 (24.2 MP $p = 5.95 \mu m$)	Nikon AF-S NIKKOR 85mm 1:1.8 G @ f/5.6	3.6 mm	3 h 45 min 3 h 20 min	2065 2544
26/10/2021 27/10/2021 28/10/2021 29/10/2021	Nikon Z 7II (45.4 MP p = 4.33 μm)	Nikon NIKKOR Z 20mm f/1.8 S @ f/5.6	0.9 mm	7 h 7 h 45 min 3 h 40 min 7 h	6042 6591 2856 6608









Date	Camera	Lens	Mean GSD	Acquisition time	Image count
30/09/2021 01/10/2021	Nikon D750 (24.2 MP p = 5.95 μm)	Nikon AF-S NIKKOR 85mm 1:1.8 G @ f/5.6	3.6 mm	3 h 45 min 3 h 20 min	2065 2544
26/10/2021 27/10/2021 28/10/2021 29/10/2021	Nikon Z 7II (45.4 MP p = 4.33 μm)	Nikon NIKKOR Z 20mm f/1.8 S @ f/5.6	0.9 mm	7 h 7 h 45 min 3 h 40 min 7 h	6042 6591 2856 6608

Total 32 h 30 min 26706



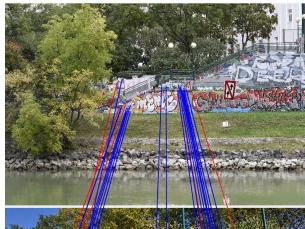


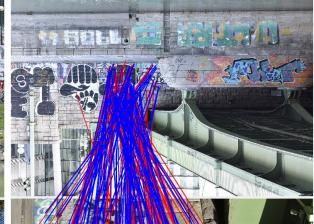


Nikon D750 + 85 mm 30-09-2021

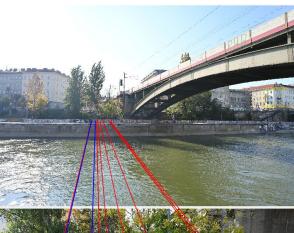
Nikon D750 + 85 mm 30-09-2021

Nikon Z7 II + 20 mm 28-10-2021







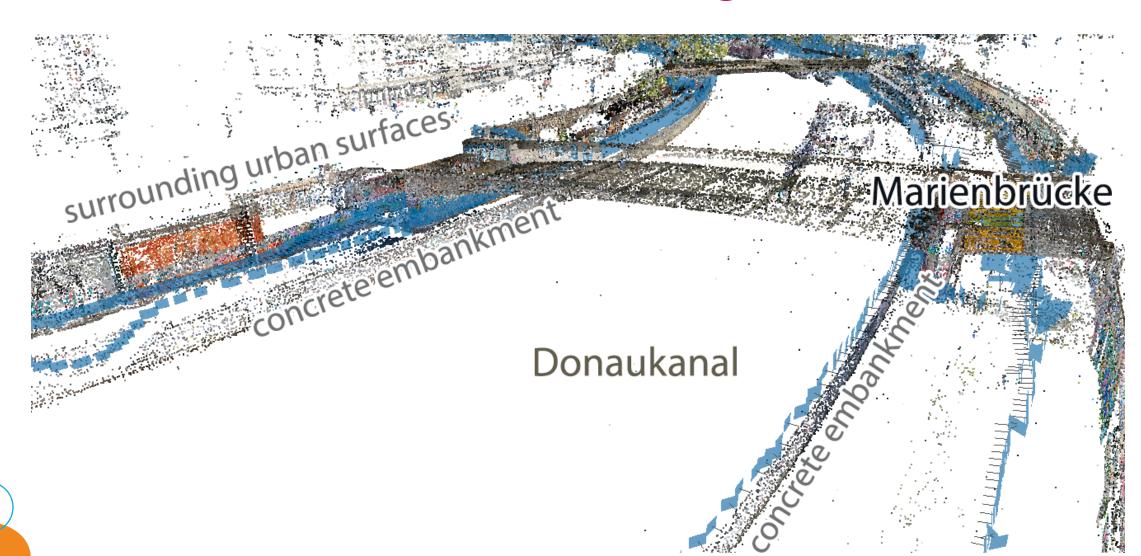


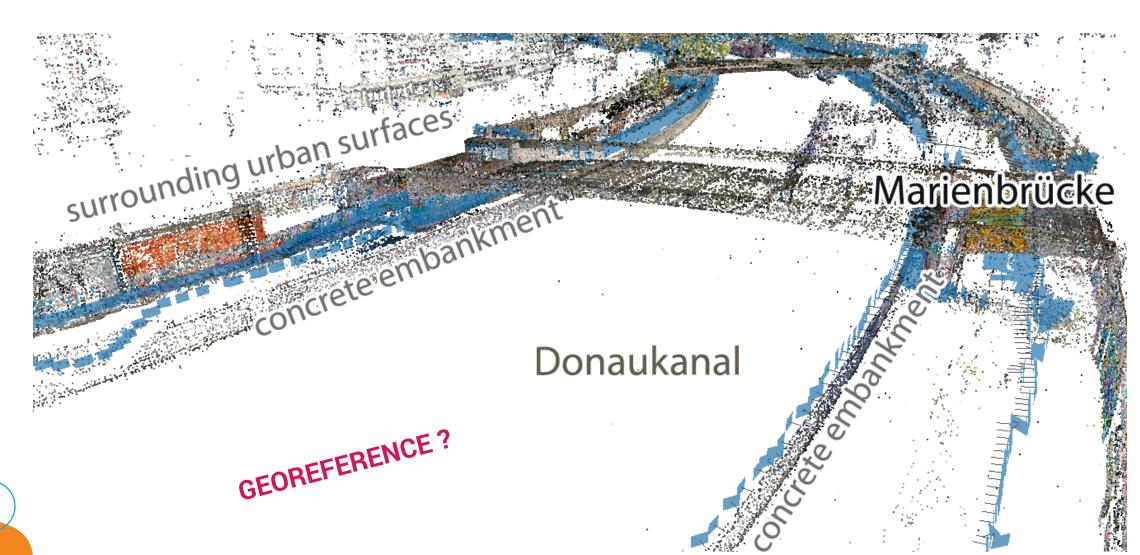


Nikon Z7 II + 20 mm 29-10-2021

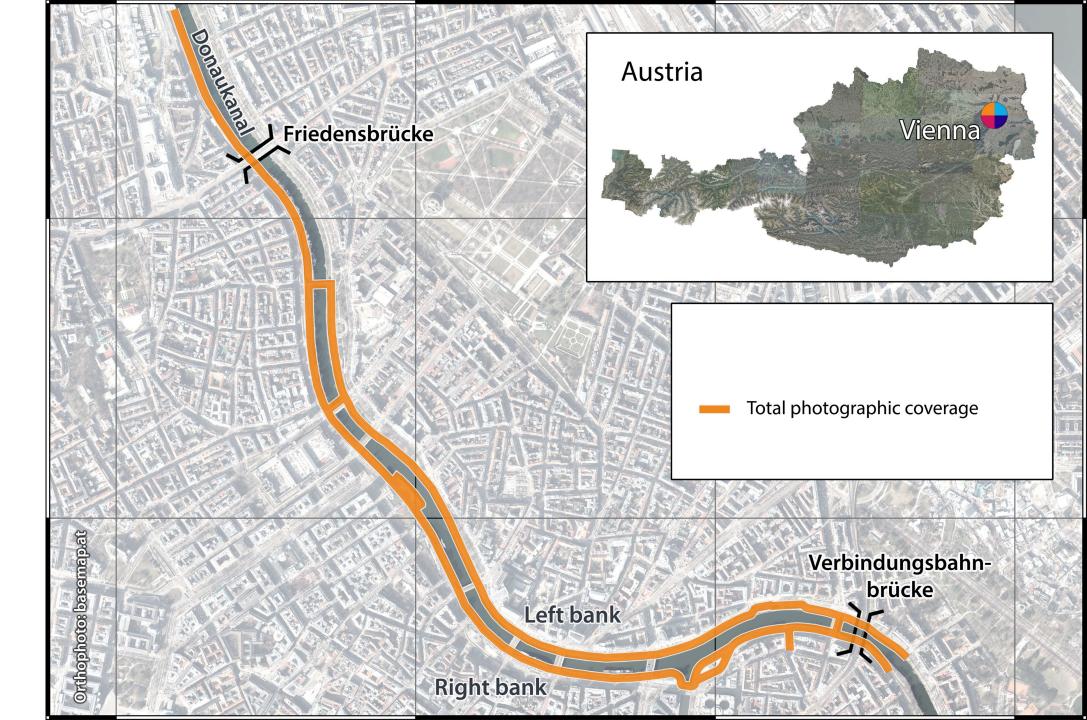
Nikon D750 + 85 mm 01-10-2021

Nikon Z7 II + 20 mm 26-10-2021





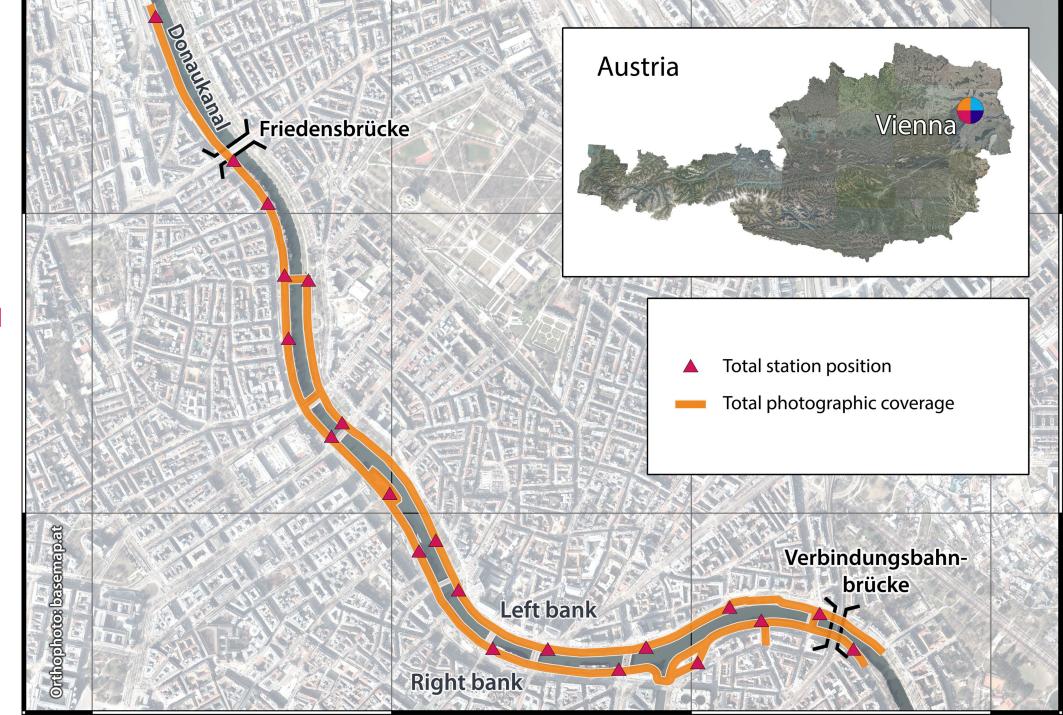
14.0 km



14.0 km

TOTAL STATION POSITIONS

21



14.0 km

TOTAL STATION POSITIONS

21



14.0 km

TOTAL STATION POSITIONS

21

GRAFFITI-SCAPE POINTS

624

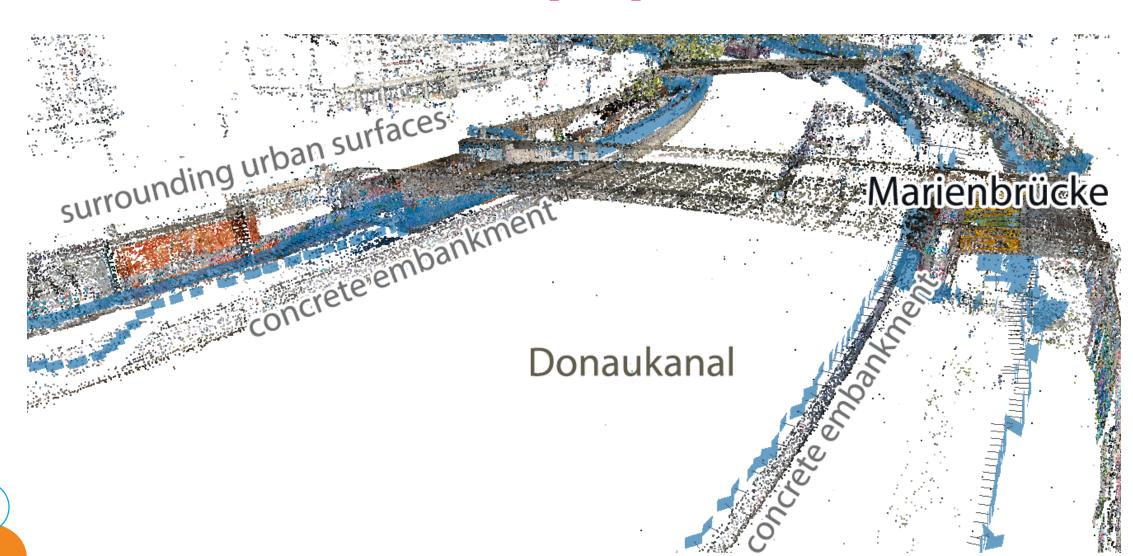








THREE purposes



THREE purposes





3 photographers



3 photographers

2 cameras + 2 spectrometers + 2 tablets



3 photographers

2 cameras + 2 spectrometers + 2 tablets

identically programmed



3 photographers

2 cameras + 2 spectrometers + 2 tablets

identically programmed



3 photographers

2 cameras + 2 spectrometers + 2 tablets

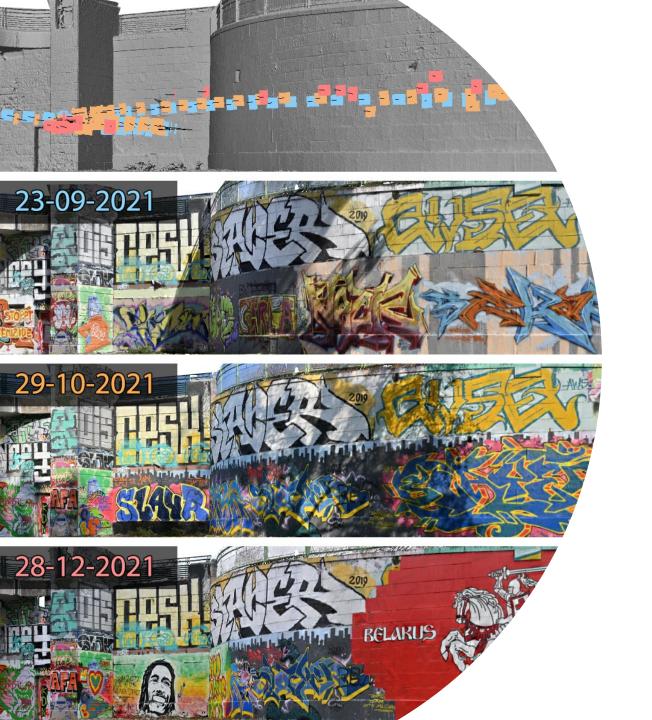
identically programmed



3 photographers

2 cameras + 2 spectrometers + 2 tablets

identically programmed



3 photographers

2 cameras + 2 spectrometers + 2 tablets

identically programmed



3 photographers

2 cameras + 2 spectrometers + 2 tablets

identically programmed



3 photographers

2 cameras + 2 spectrometers + 2 tablets

identically programmed

fixed acquisition procedure

colour processing [Adolfo Molada Tebar]



3 photographers

2 cameras + 2 spectrometers + 2 tablets

identically programmed

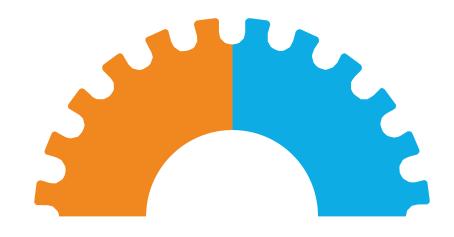
BASEMAP

ESRI ArcGIS Field Maps areas with overview photos cloud-based | tablets



BASEMAP

ESRI ArcGIS Field Maps areas with overview photos cloud-based | tablets

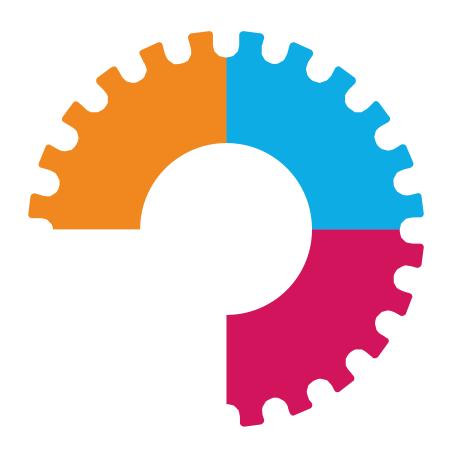


MONITOR

check social media memory hashtags + form (unused)

BASEMAP

ESRI ArcGIS Field Maps areas with overview photos cloud-based | tablets



MONITOR

check social media memory hashtags + form (unused)

ADD TO APP

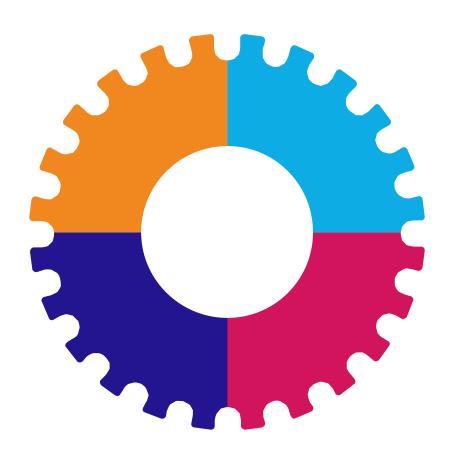
point: "not photographed"

BASEMAP

ESRI ArcGIS Field Maps areas with overview photos cloud-based | tablets

DOCUMENT

 \pm 10 photos spectrometer reading change status point new overview photo



MONITOR

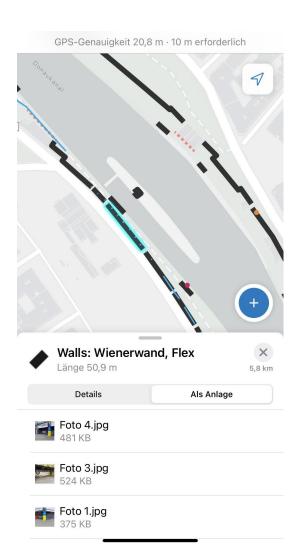
check social media memory hashtags + form (unused)

ADD TO APP

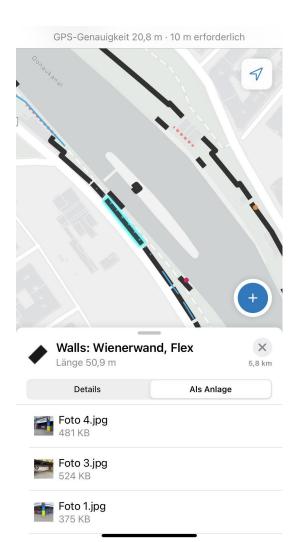
point: "not photographed"

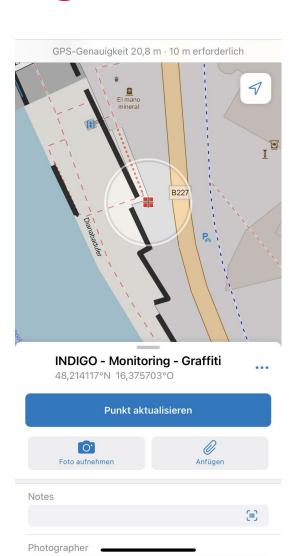












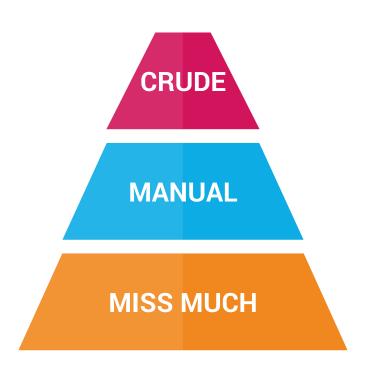
THREE problems

MISS MUCH

THREE problems



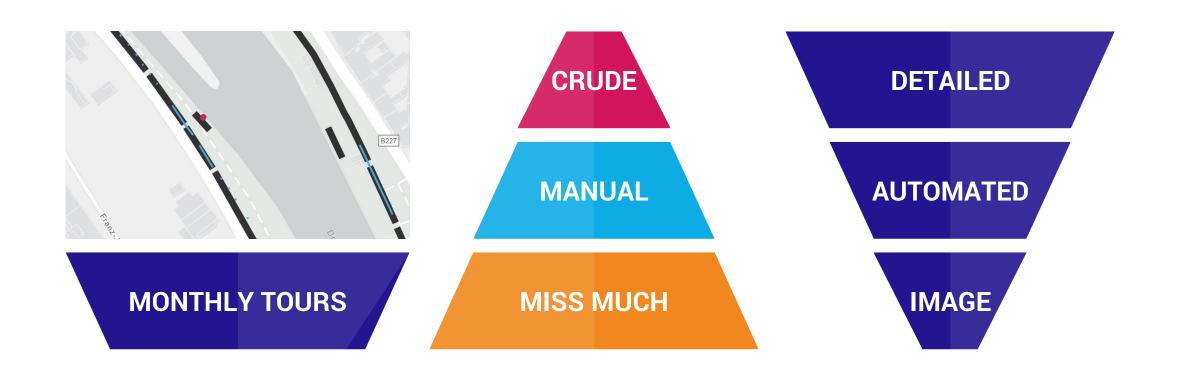
THREE problems

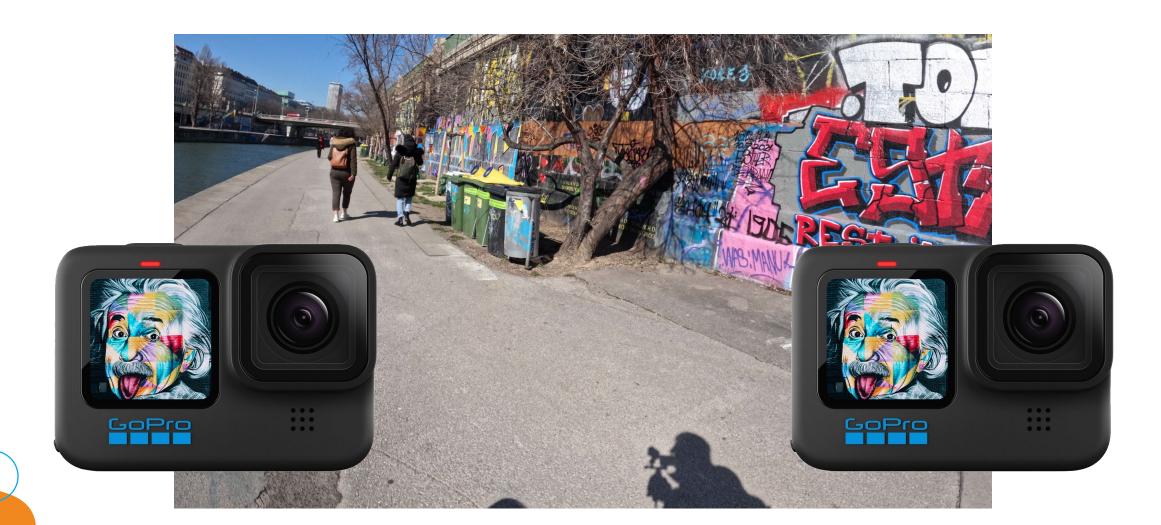


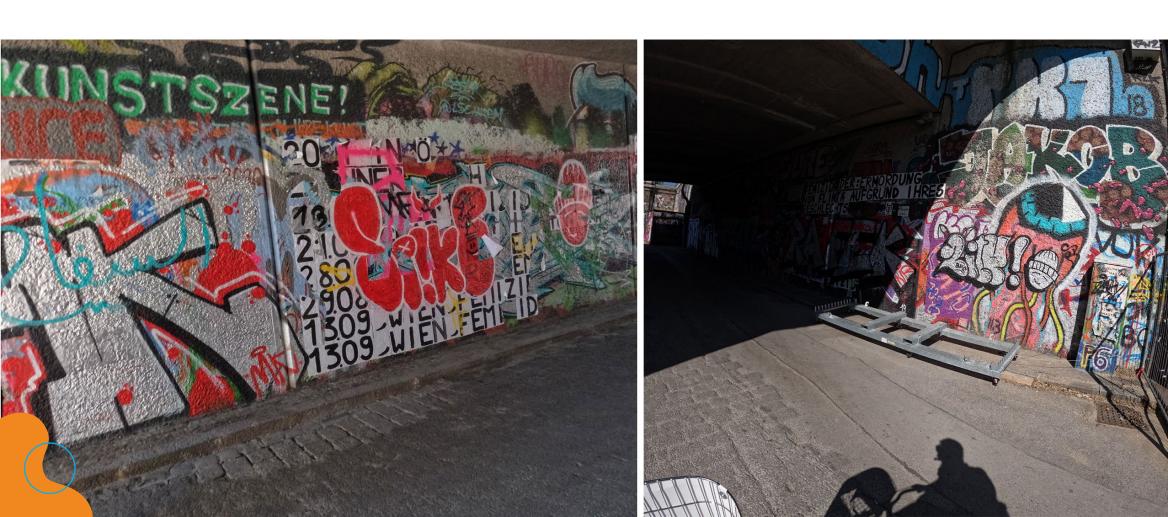
POSSIBLE solutions



POSSIBLE solutions





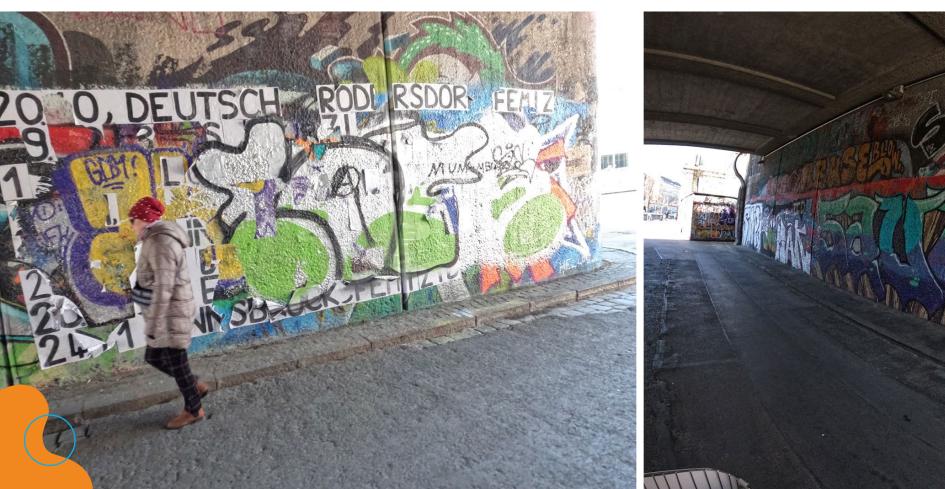






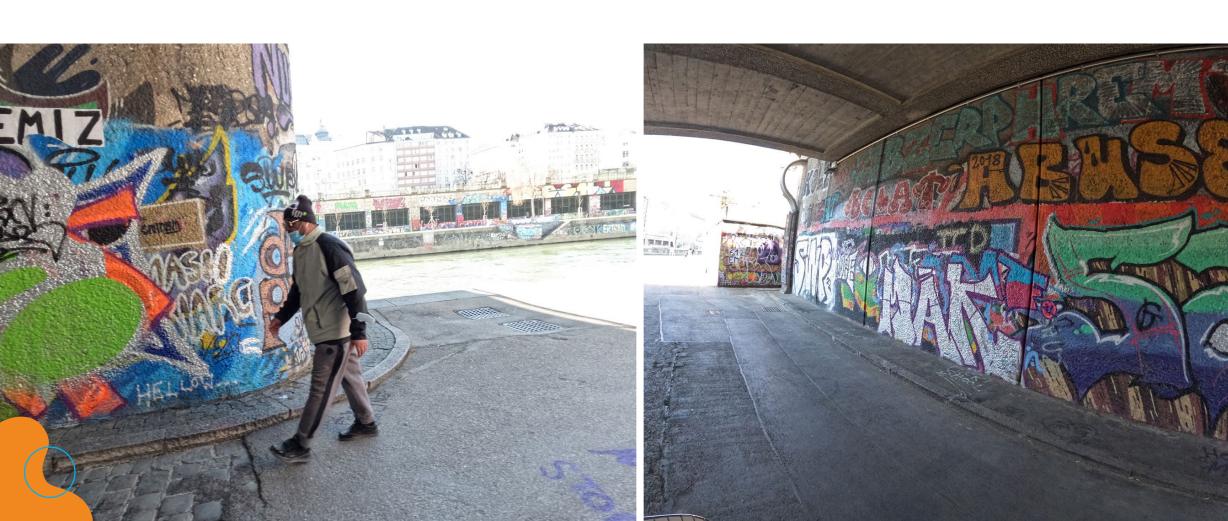










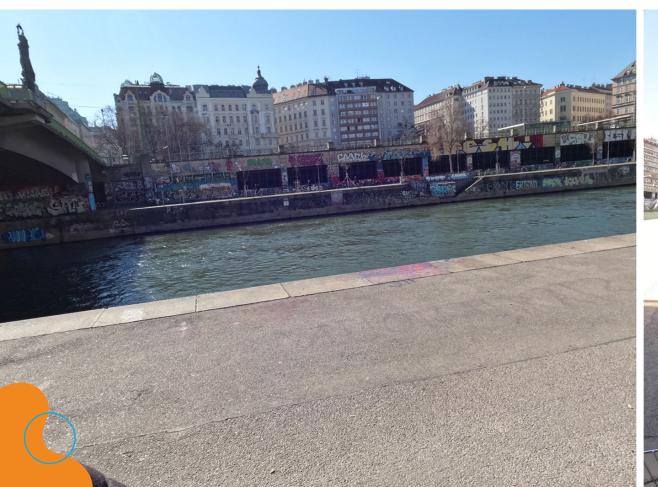




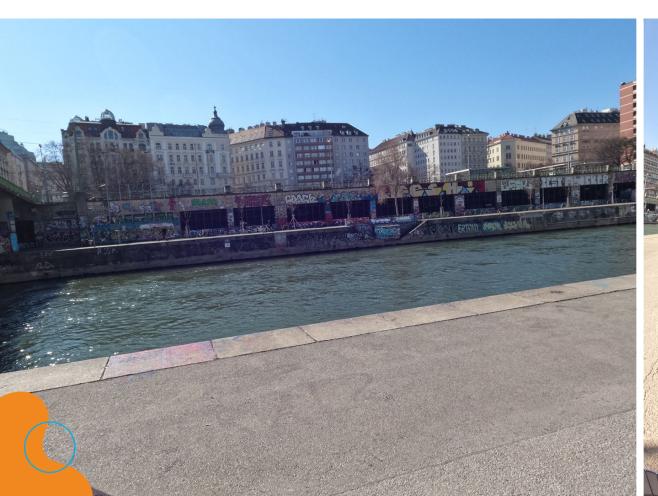


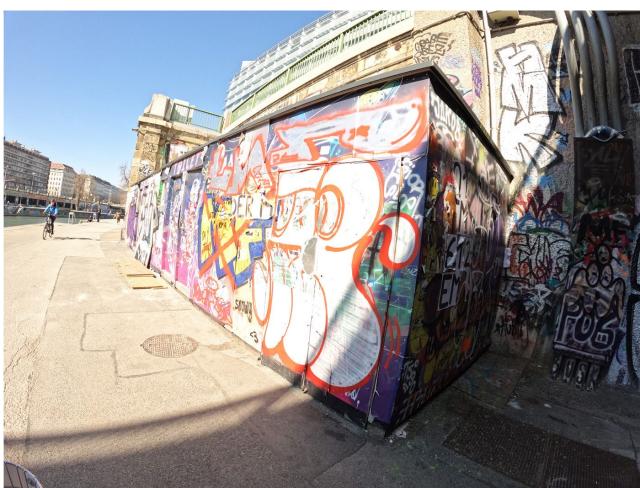


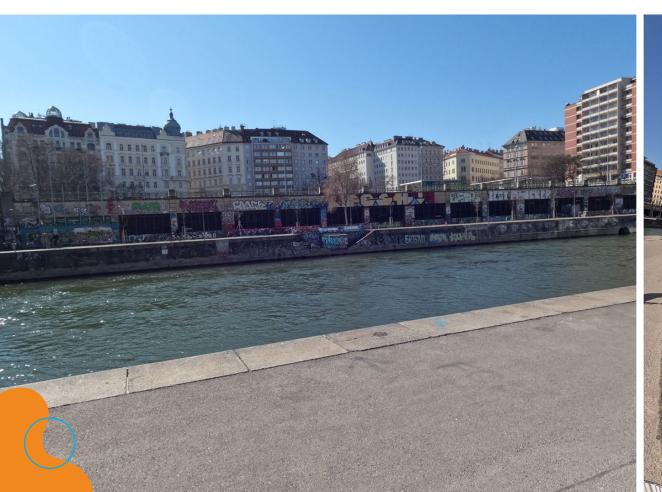


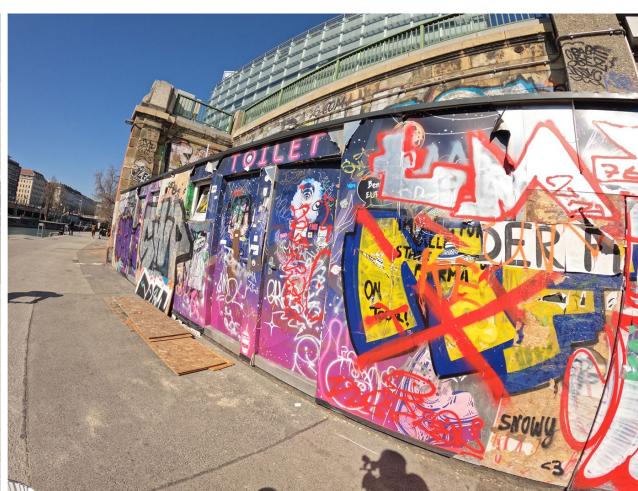




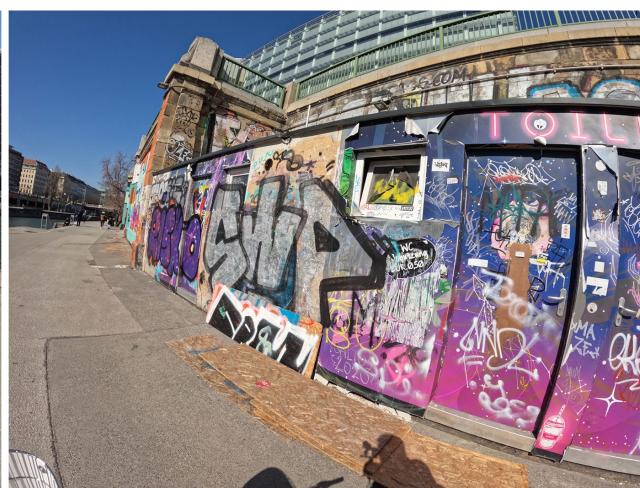




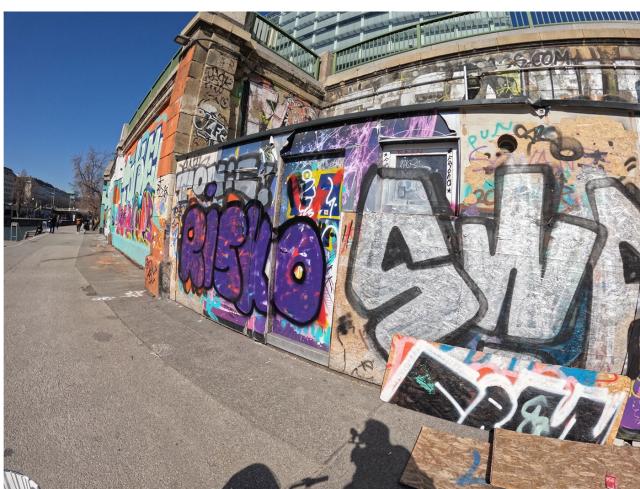


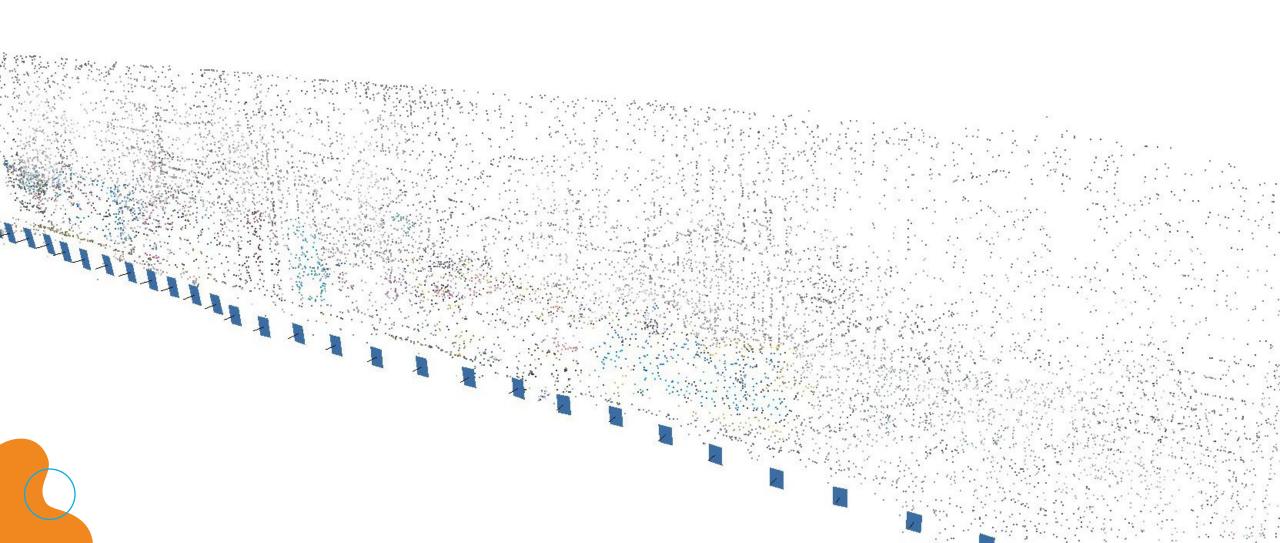


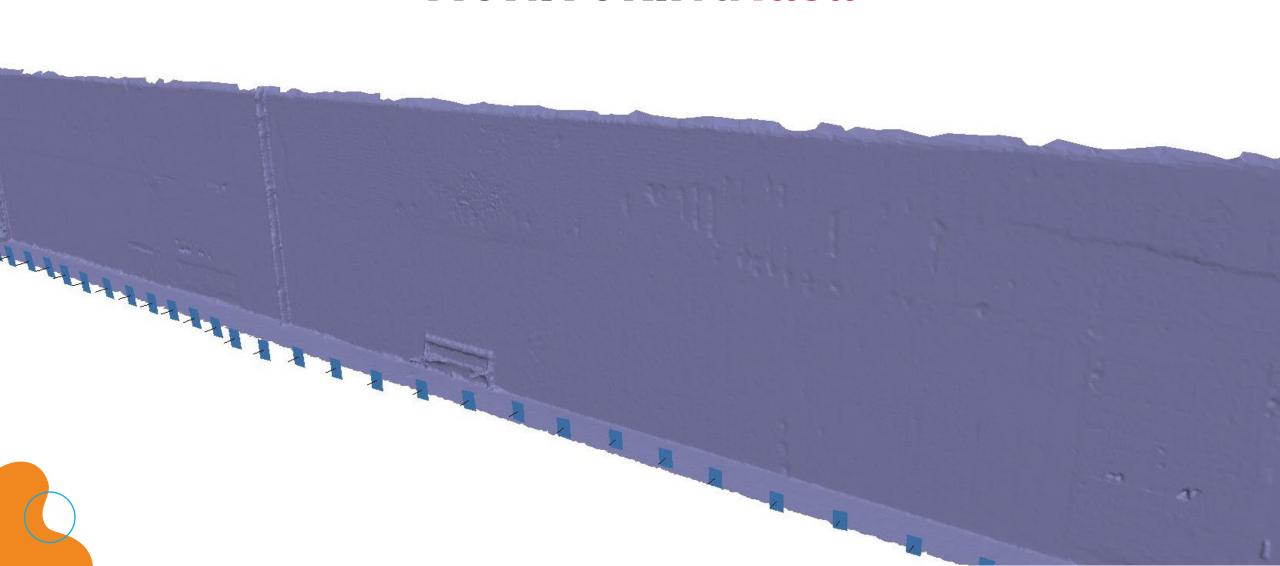








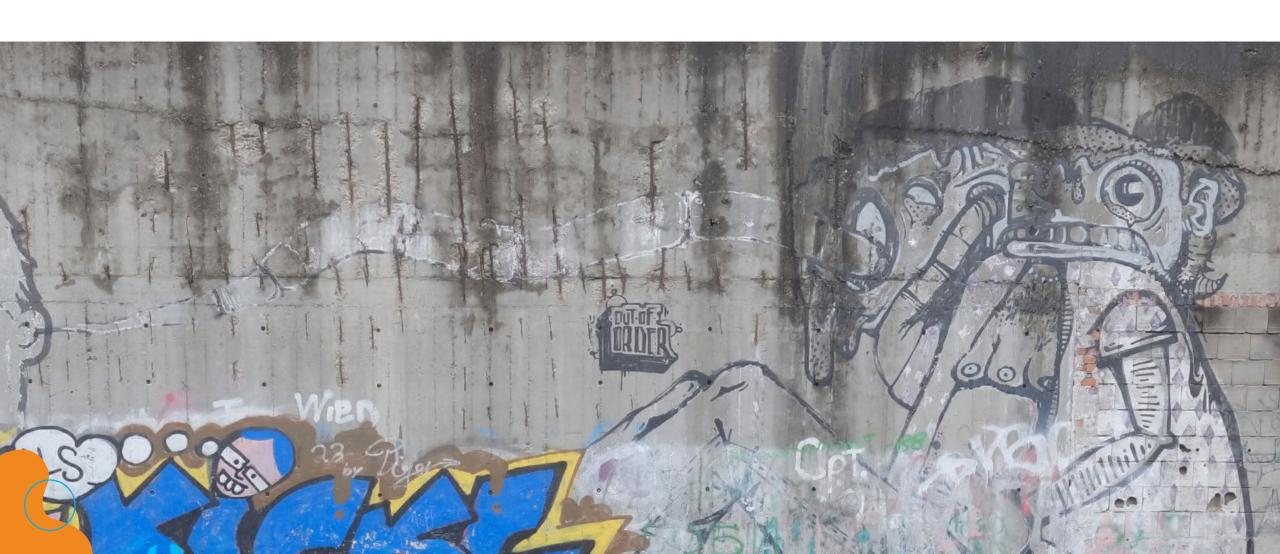


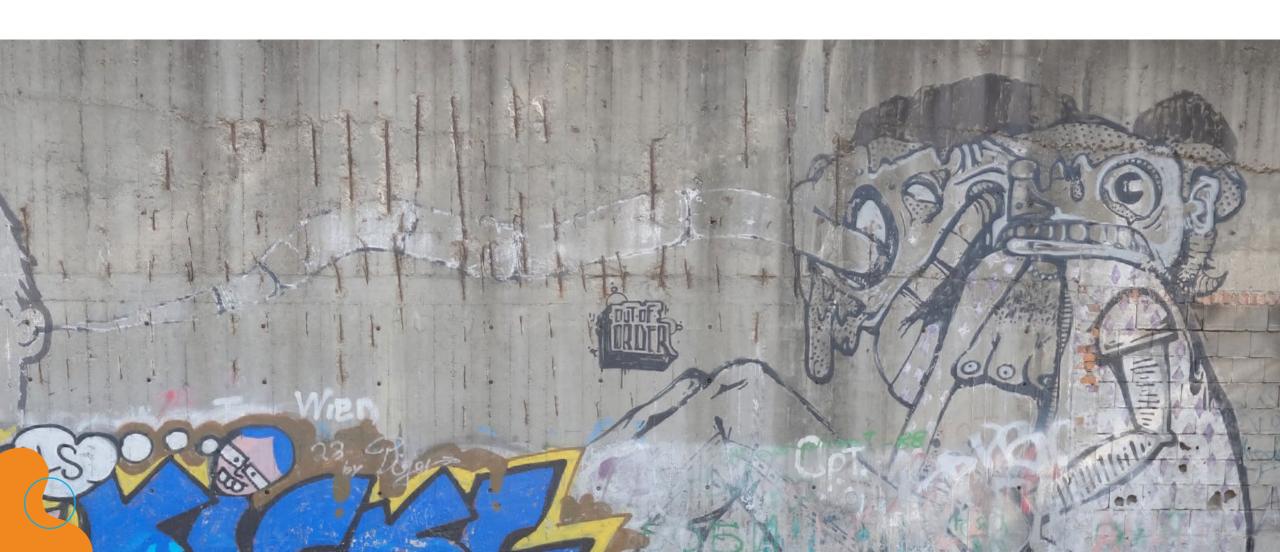
























CHANGE MAP

IMAGE anonymisation



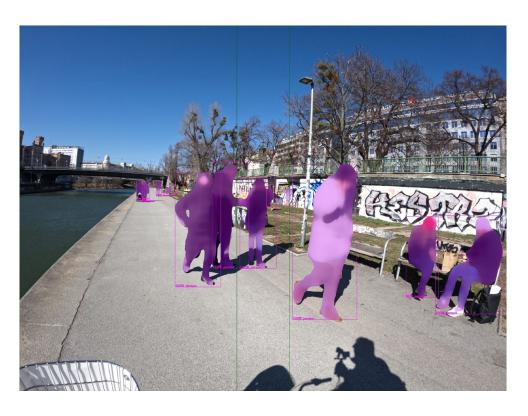




IMAGE anonymisation

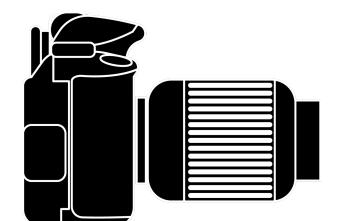


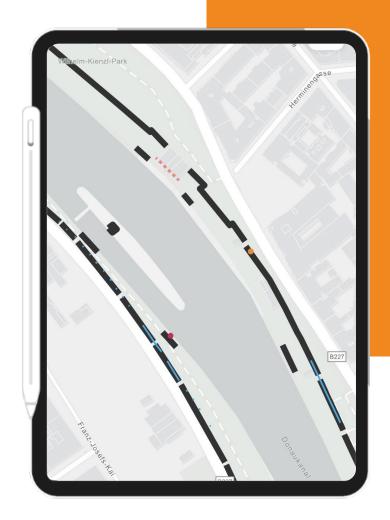


IMAGE anonymisation

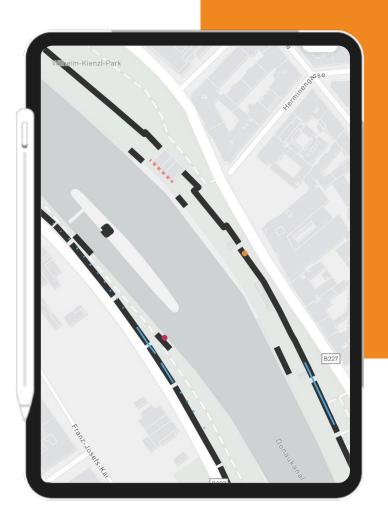




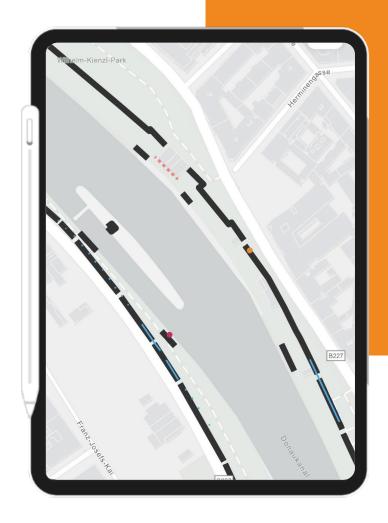






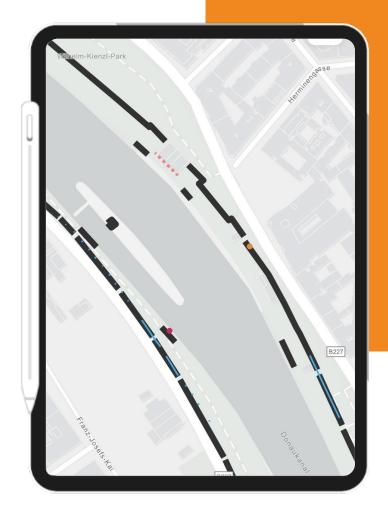


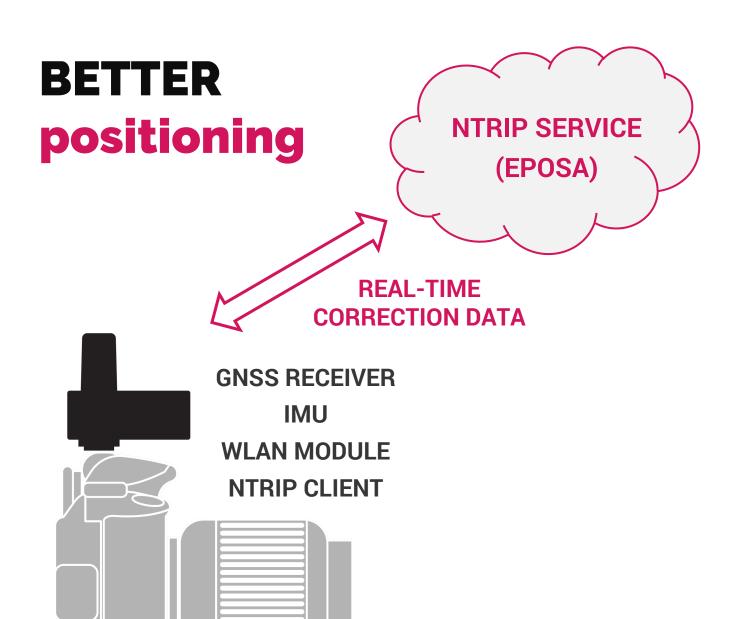


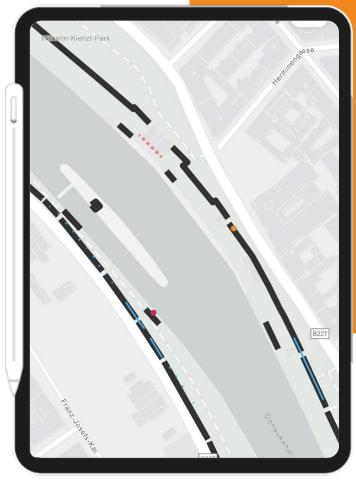


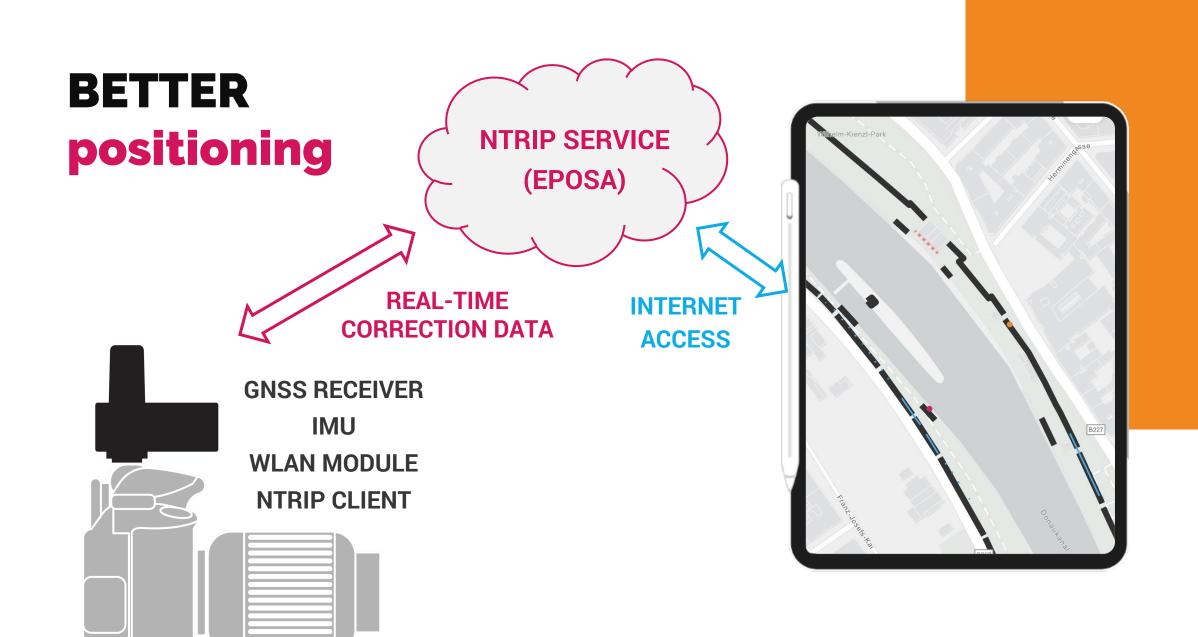


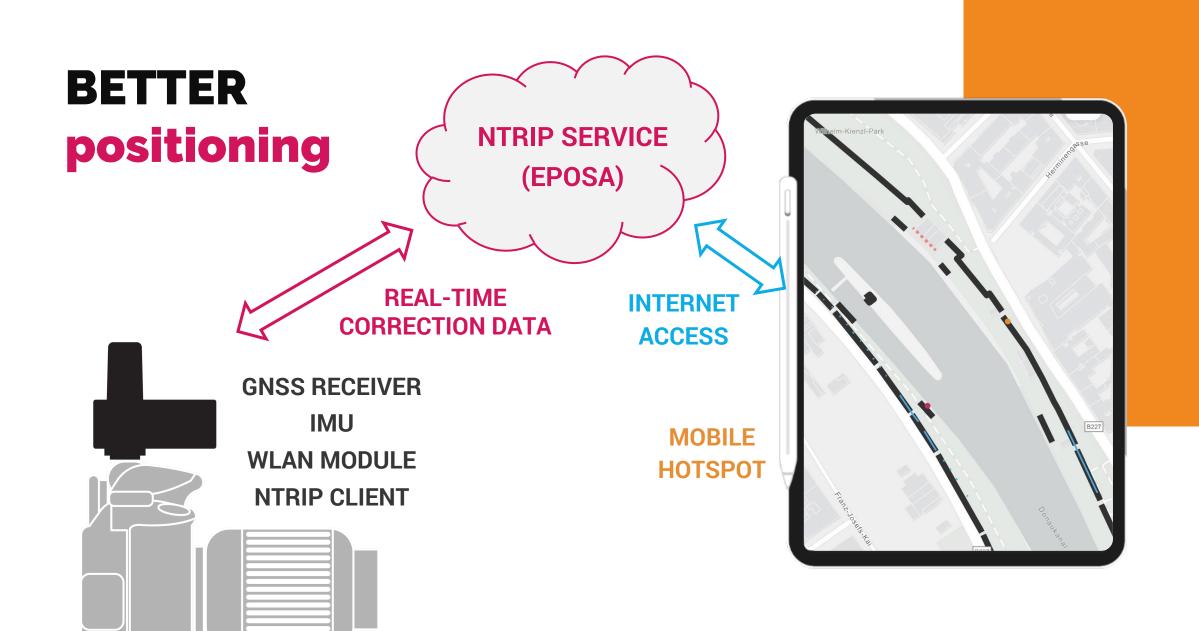


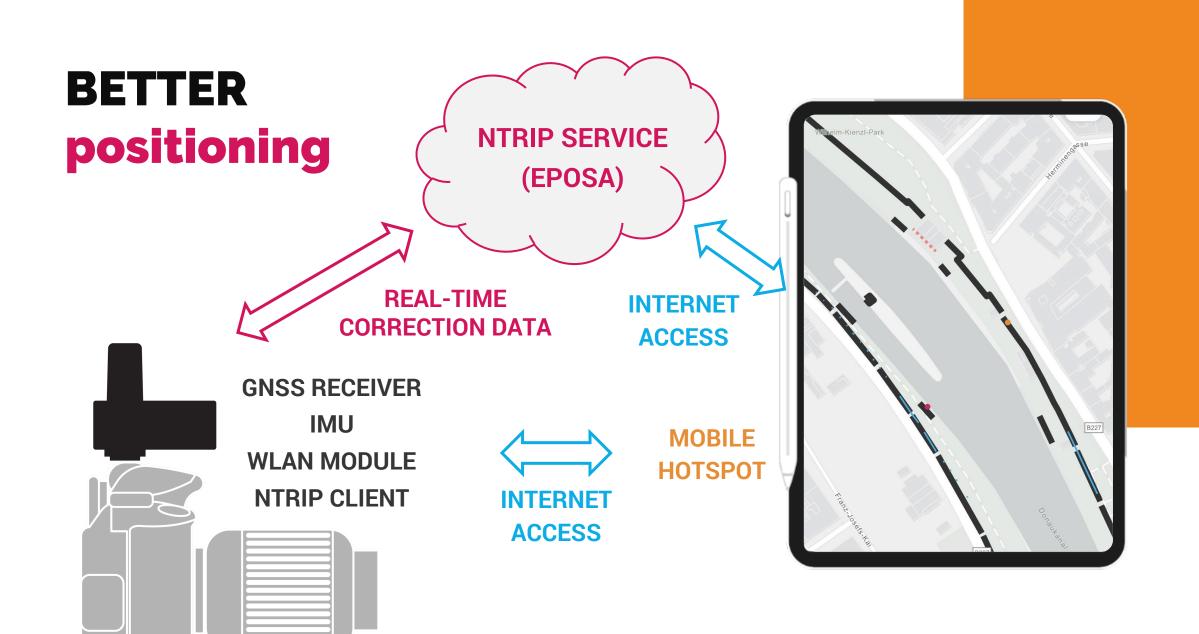


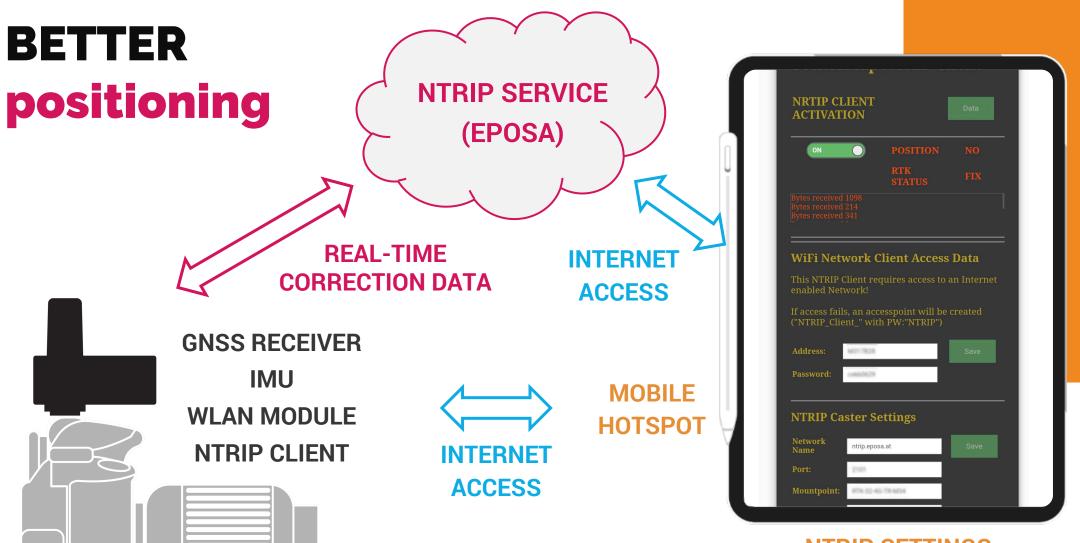




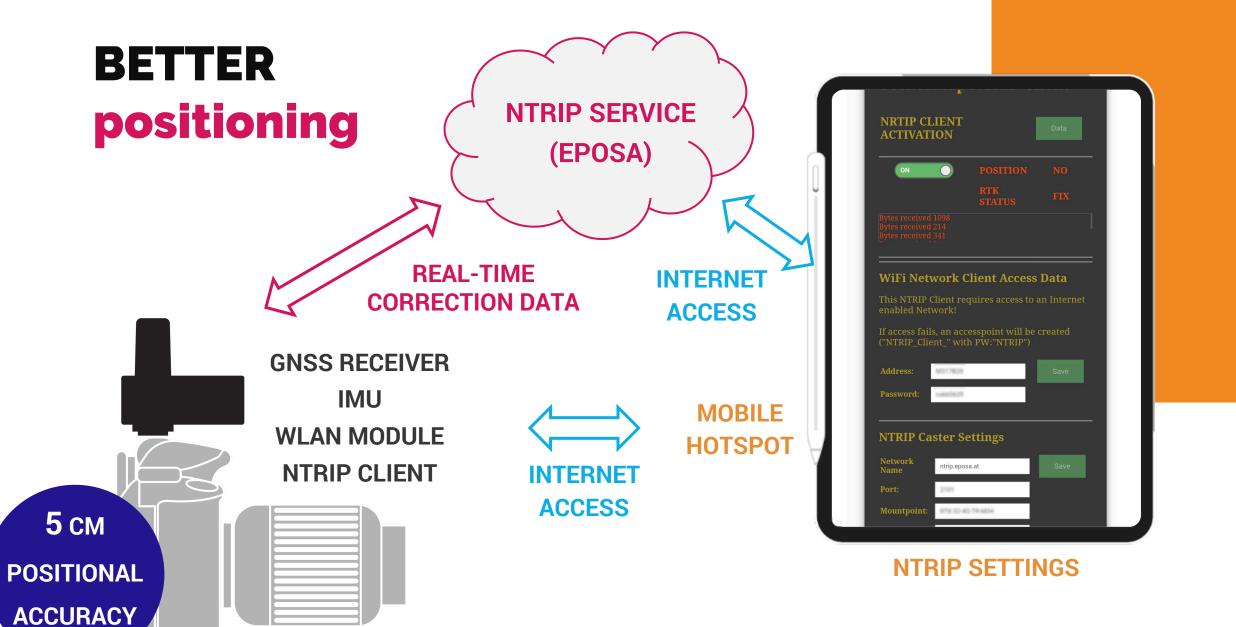








NTRIP SETTINGS





Discovering & recording new graffiti within project INDIGO

Geert Verhoeven | Jona Schlegel Martin Wieser | Stefan Wogrin

projectindigo.eu

