



SANPIC

Salzburg Airport Noise Pollution
Impact analysis to City demographics





Stephanie Tumampos

Project Lead

stephanie.tumampos@stud.sbg.ac.at

Rochamukti Rizcanofana

Project Team

rochamukti.rizcanofana@stud.sbg.ac.at

May 2020 – June 2020

Project Duration

SANPIC Project

Idea and Proposed Solution



OVERVIEW

Salzburg Airport noise pollution impact analysis to city demographics (SANPIC) is an open access application that visualizes the noise pollution emitted by airplanes in and out of Salzburg Airport, and how it affects areas surrounding the facility.

With the app, users can choose which establishments related to certain demographics (e.g. kindergarten, hospital, elderly care houses) can be viewed on the screen through the layers option. Based on the proximity of these establishments to the airport, an evaluation can be made if it is too near or too far to be affected by the airport noise pollution.

SANPIC app will help them decide better in urban planning construction and can help in mitigating certain effects of noise pollution to certain groups of people.

OBJECTIVES/PROPOSED SOLUTION

Project SANPIC aims to provide a visual representation of the noise pollution occurring in Salzburg Airport due to the incoming and outgoing flights in the facility, and its impact towards the inhabitants of the city.



To deliver an interactive webmap application



Noise pollution of incoming and outgoing flights with the corresponding sound range is visualized per hour



Layers of establishments corresponding to their demographic category are also included in the app



SANPIC app will analyze the impact of noise pollution surrounding the airport.

BENEFITS

The purpose of SANPIC is to provide an interactive webmap app that can:



Help the government, stakeholders and even the public, understand spatial implications of urban planning set-ups around Salzburg airport



Provide public awareness on the noise pollution an airport facility brings particularly affecting specific demographic groups such as the elderly and kids



Identify future problems that may arise around the facility, support regulations and improve facilities

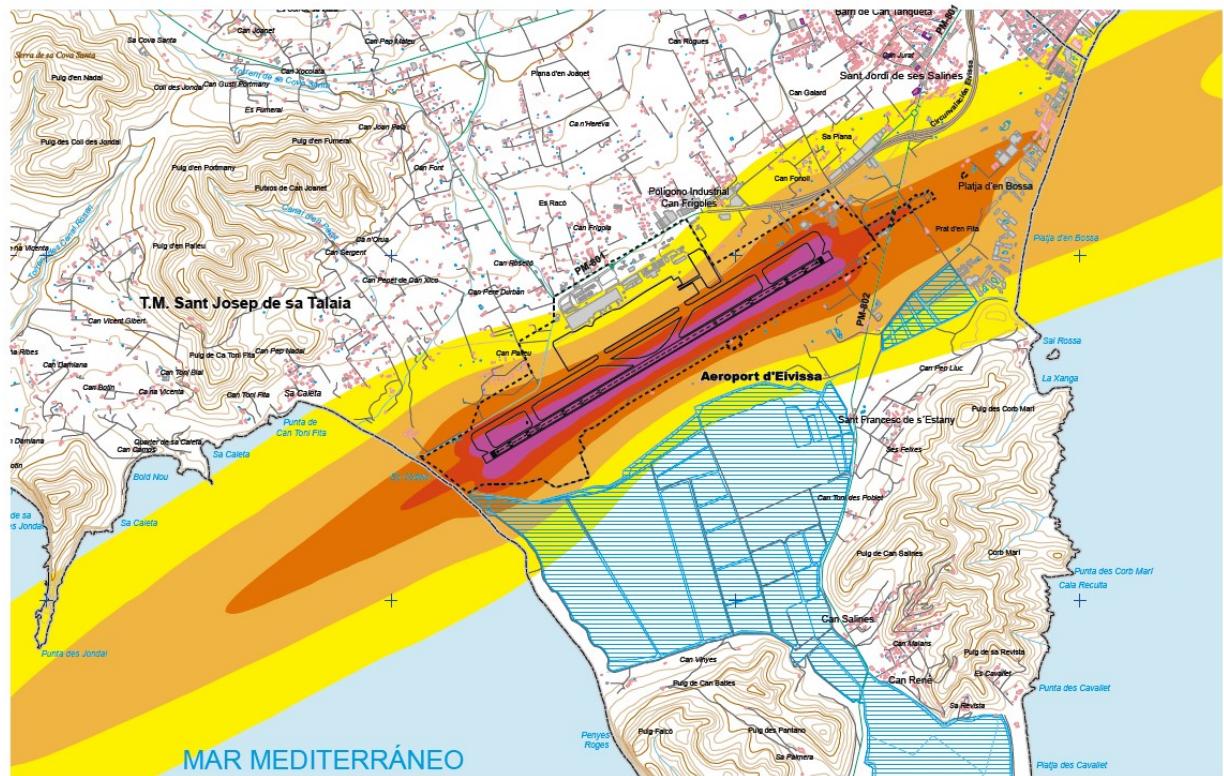


Help the public in better urban planning decisions

PROJECT SETTING

- The air traffic data would be derived from Opensky (<https://opensky-network.org/>) and the source of demographic data is the Salzburg Open Government Data portal.
- All of the managerial works of this project would be conducted using Gitlab and Gantt Chart monitoring.
- The project output is an interactive web map, with the visualization of the noise pollution impact from airplanes during take-off and landing in Salzburg airport.

Example of intended result is a noise contour map as follows

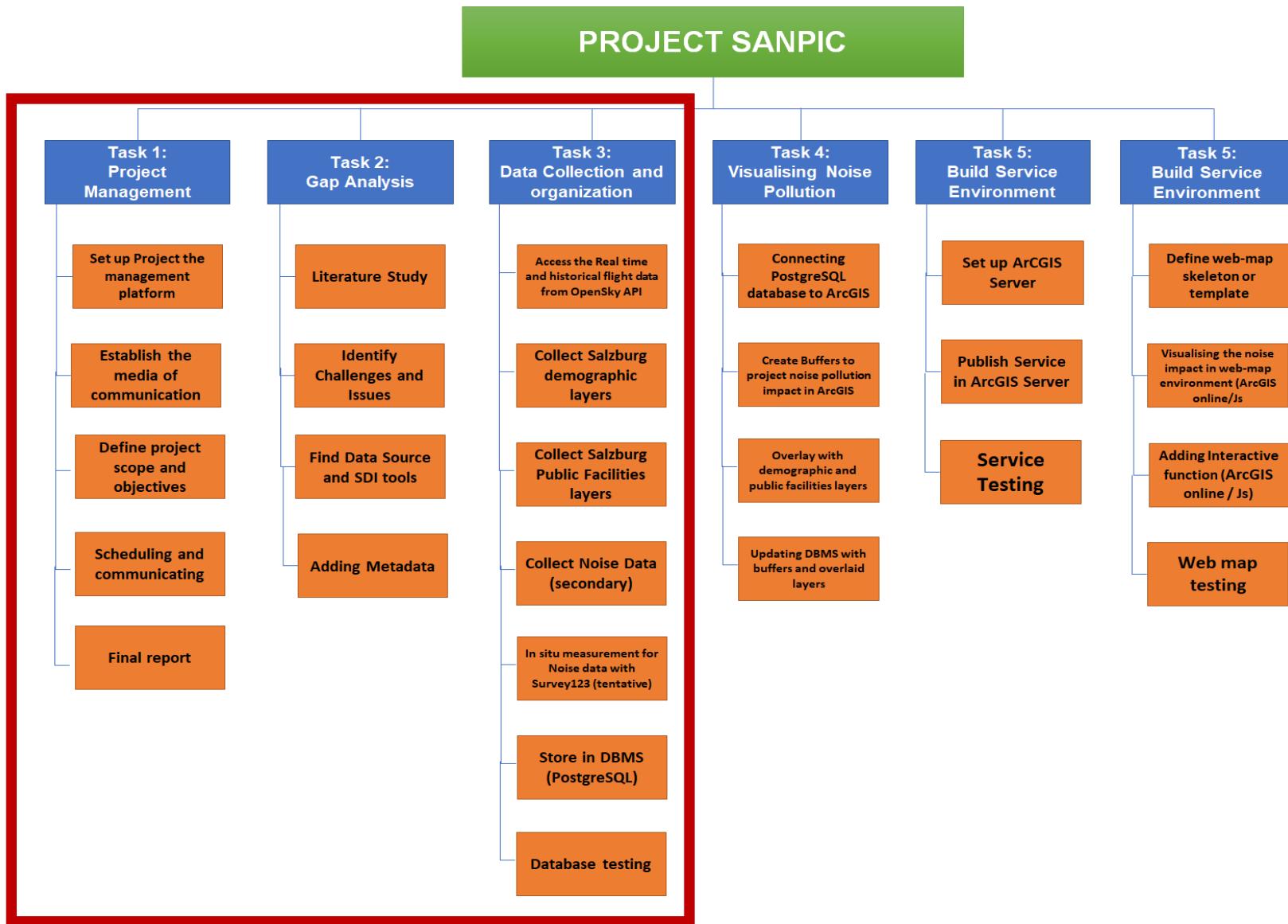


SANPIC Project

Documentation



WORK BREAKDOWN STRUCTURE



WORK PACKAGE 1

PROJECT MANAGEMENT

MILESTONES



- M1 – Completed Project Management

Completed on May 5, 2020

LACKING SPECIFICS

- Follow-up Gitlab repository
- Final report

DELIVERABLES



- D1 - Document File of Project Overview

Completed on May 17, 2020



- D2 - Gitlab Repository

Created on May 11, 2020

ON-GOING



- D3 - Final Report and Final Presentation

NOT YET STARTED

WORK PACKAGE 2

GAP ANALYSIS

MILESTONES



- M2 - Completed Gap Analysis

Created on May 5, 2020
ON-GOING

LACKING SPECIFICS

- More literature studies
- More solutions to challenges
- Clarify Metadata

DELIVERABLES



- D4 - Document that can show the list of challenges and issues and possible solutions

Created on May 5, 2020
ON-GOING



- D5 – Document with a list of data sources and tools to be used.

Created on May 5, 2020
ON-GOING

WORK PACKAGE 3

DATA COLLECTION AND ORGANIZATION

MILESTONES



- M3 - Completed Collection of Data and Validation

Created on May 5, 2020

ON-GOING



- M3 – Database established

NOT YET STARTED

DELIVERABLES



No deliverables in this package

LACKING SPECIFICS

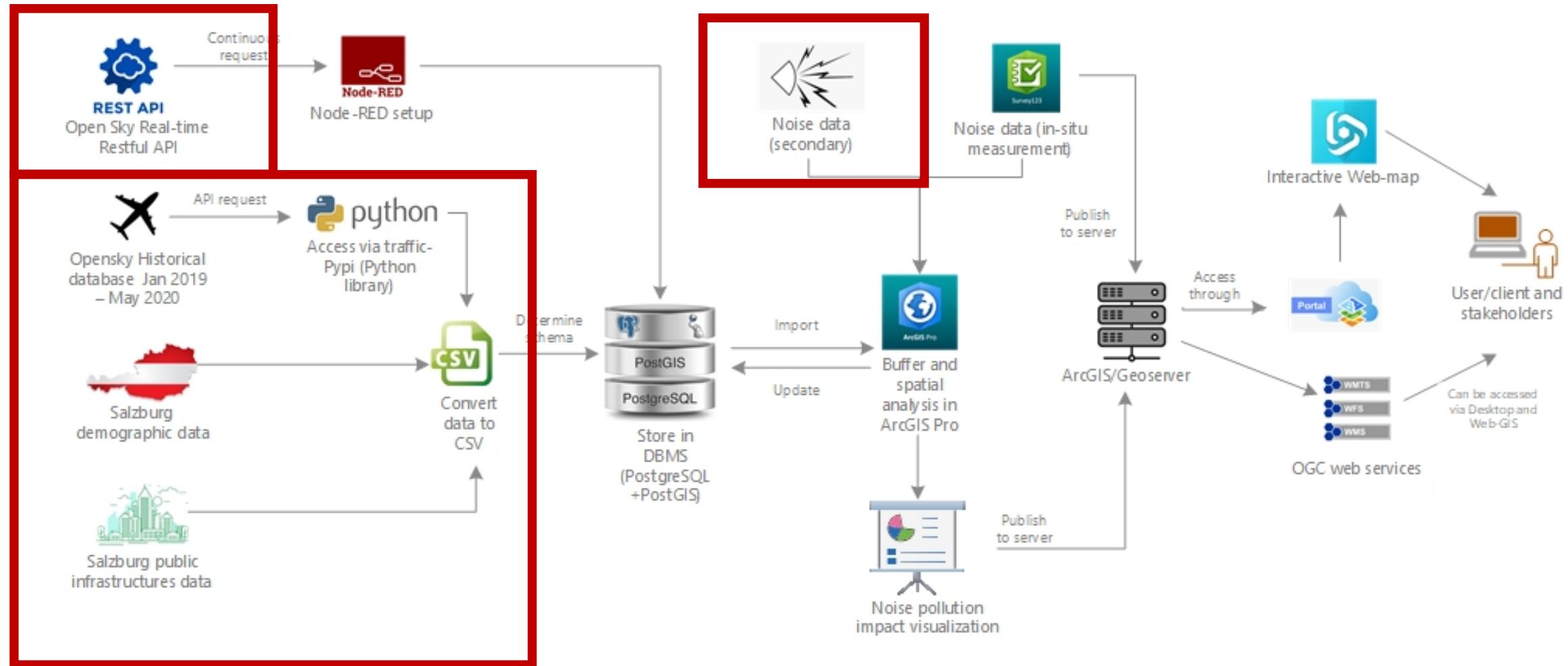
- In-situ Measurements
- DBMS (PostgreSQL + PostGIS)
- Database Testing
- Database establishment

SANPIC Project

APPROACH AND METHODS



WORKFLOW

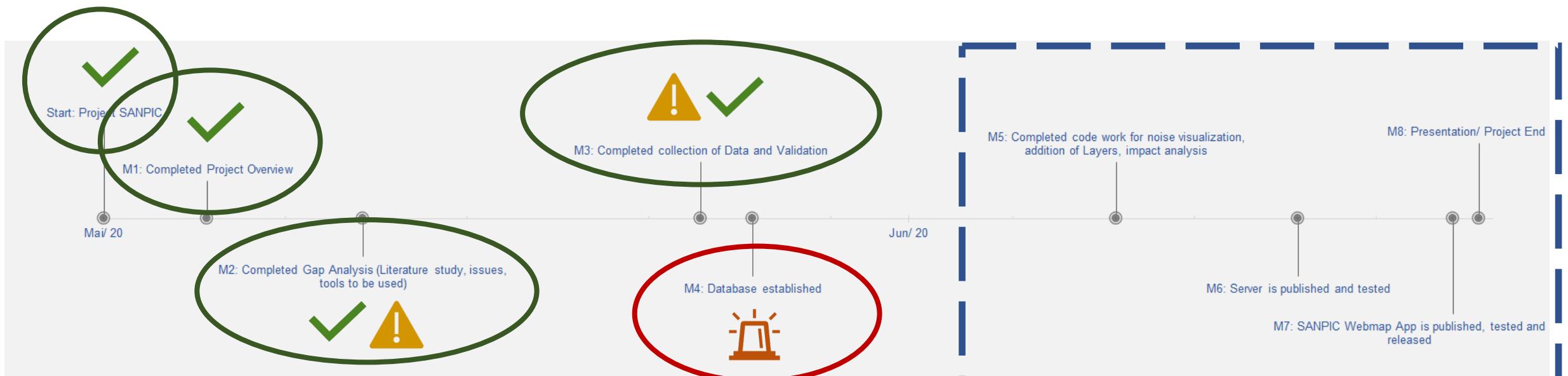


SANPIC Project

STATUS QUO/ PROGRESS ON SDI IMPLEMENTATION



MILESTONES OVERVIEW



MILESTONE

- M1 – Completed Project Overview
- M2 – Completed Gap Analysis
- M3 – Completed collection of Data and Validation
- M4 – Database established

TARGET DATES

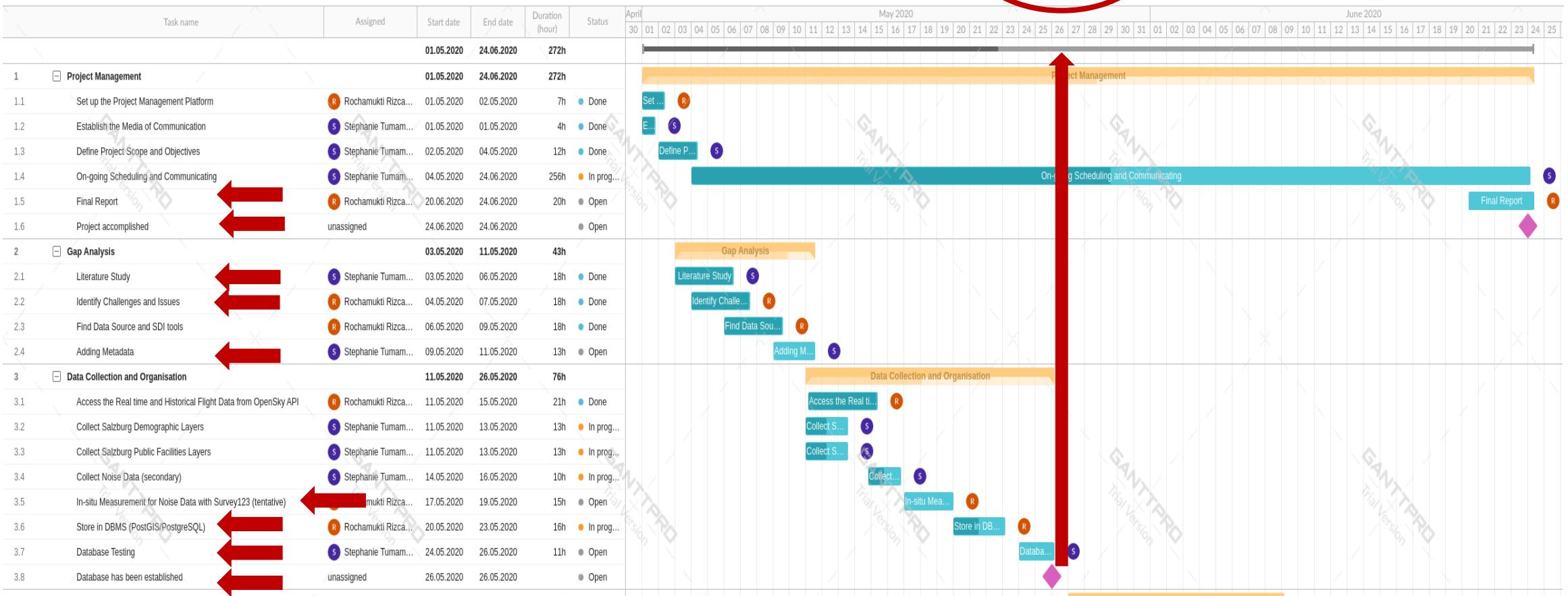
- May 5, 2020
- May 11, 2020
- May 24, 2020
- May 26, 2020

FUTURE MILESTONES

GANTT CHART

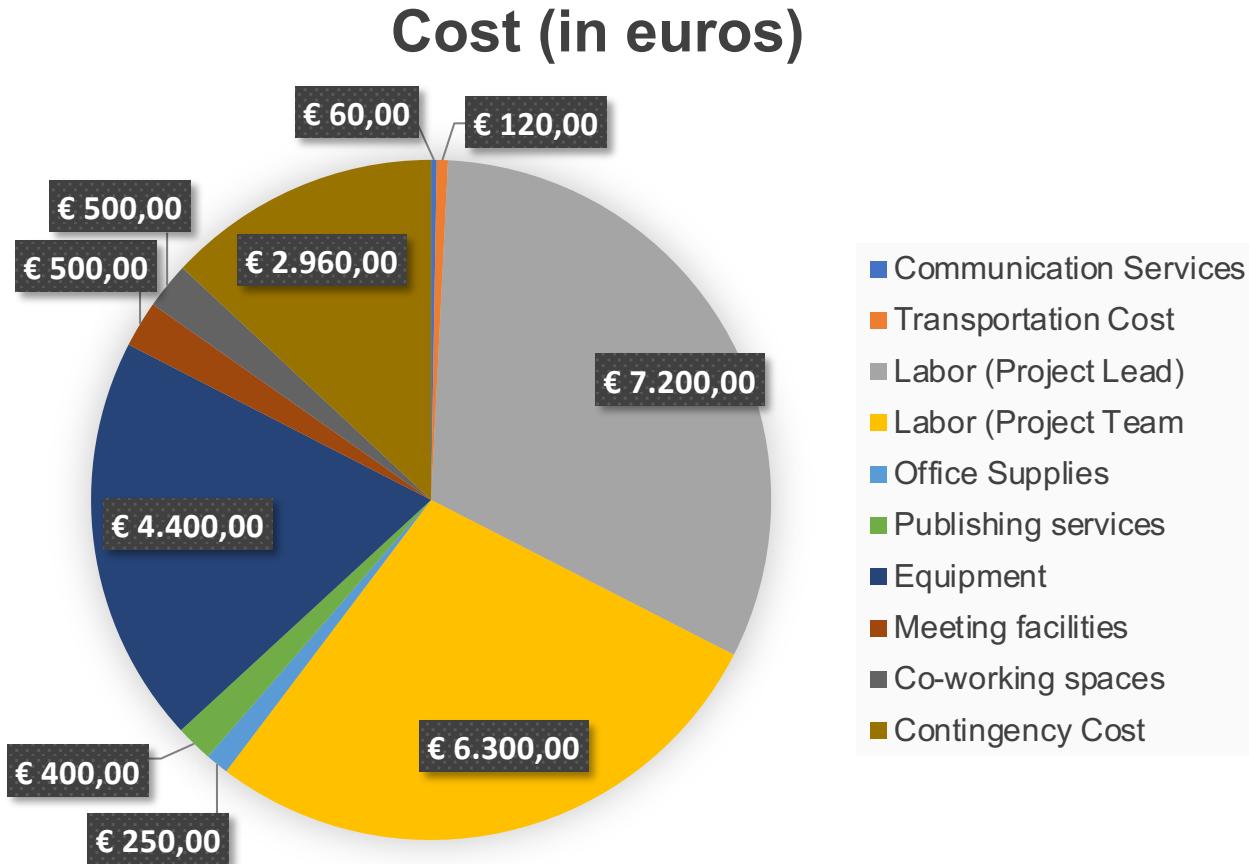
CURRENT PROGRESS

Stud | SANPIC Project - SDI



May 26

PROJECT COST



TOTAL COST:
€ 22,690

No spending done yet

SANPIC Project

FIRST RESULTS



DATA COLLECTION



SALZBURG POPULATION
(AGE)



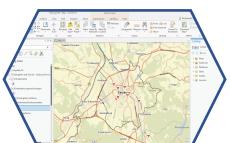
SALZBURG POPULATION
GRID



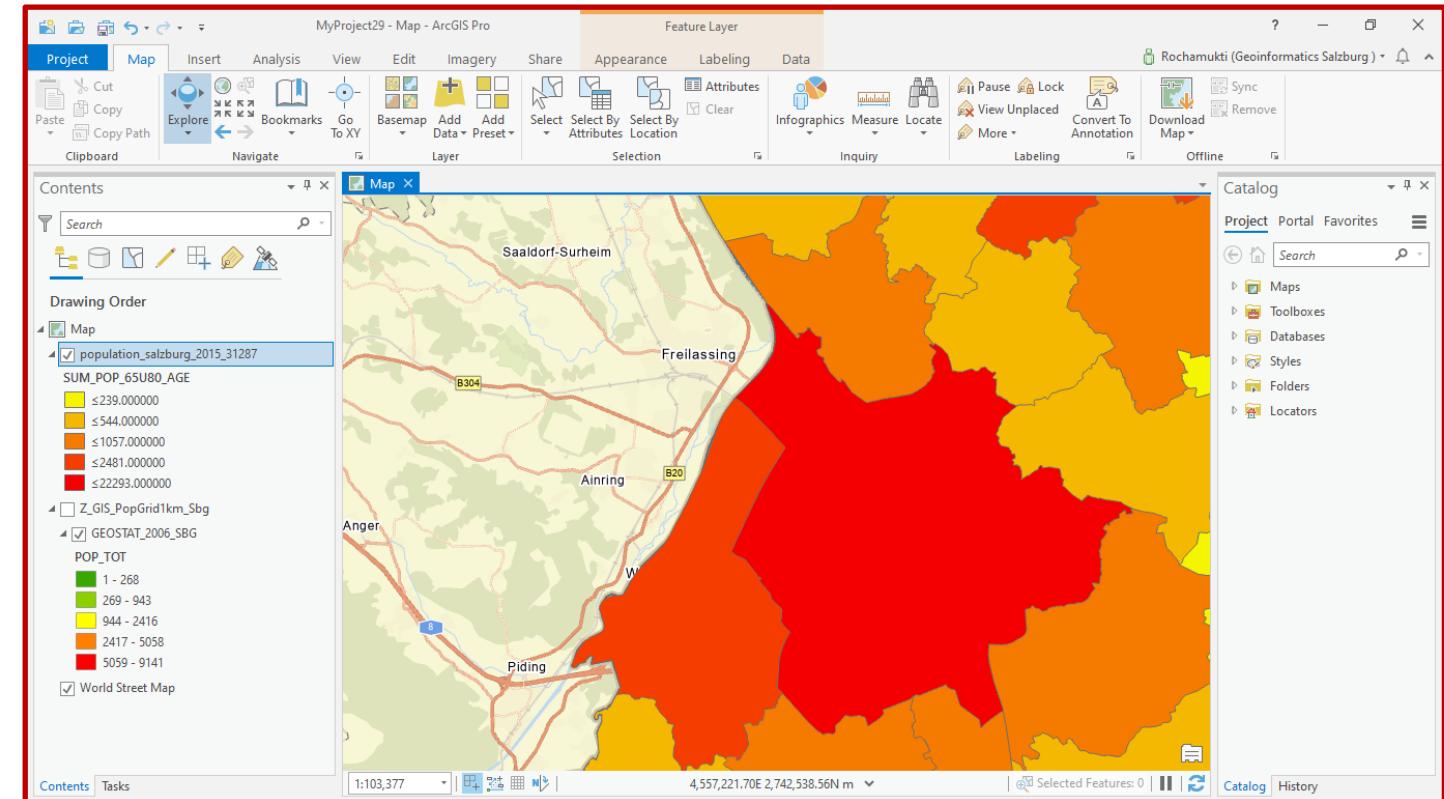
SALZBURG SCHOOLS



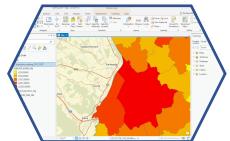
SALZBURG SENIOR
HOUSING



SALZBURG HOSPITALS



DATA COLLECTION



SALZBURG POPULATION
(AGE)



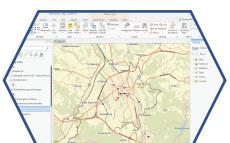
SALZBURG POPULATION
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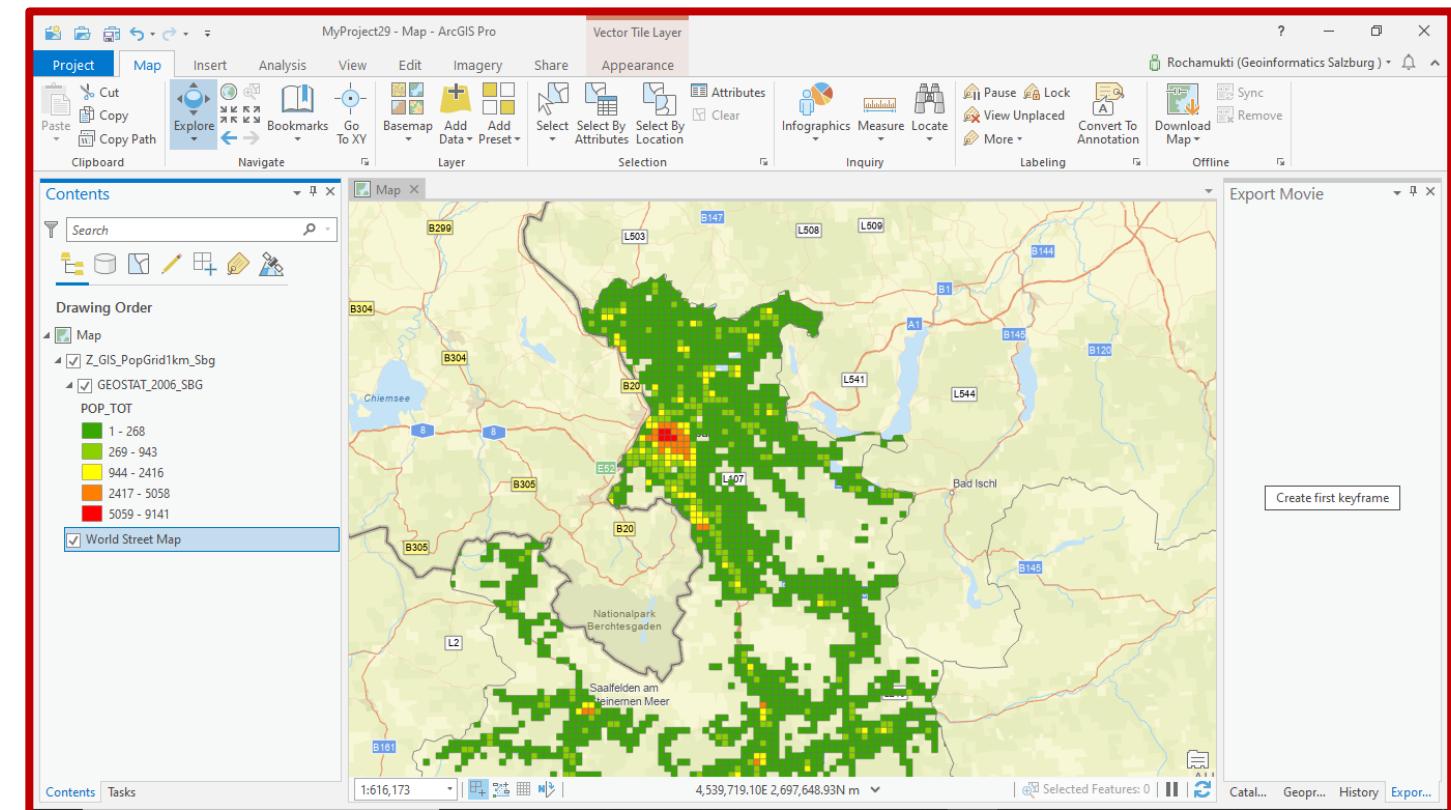
SALZBURG SCHOOLS



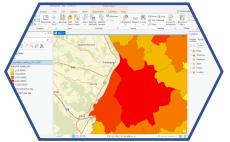
SALZBURG SENIOR
HOUSING



SALZBURG HOSPITALS



DATA COLLECTION



SALZBURG POPULATION
(AGE)



SALZBURG POPULATION
GRID



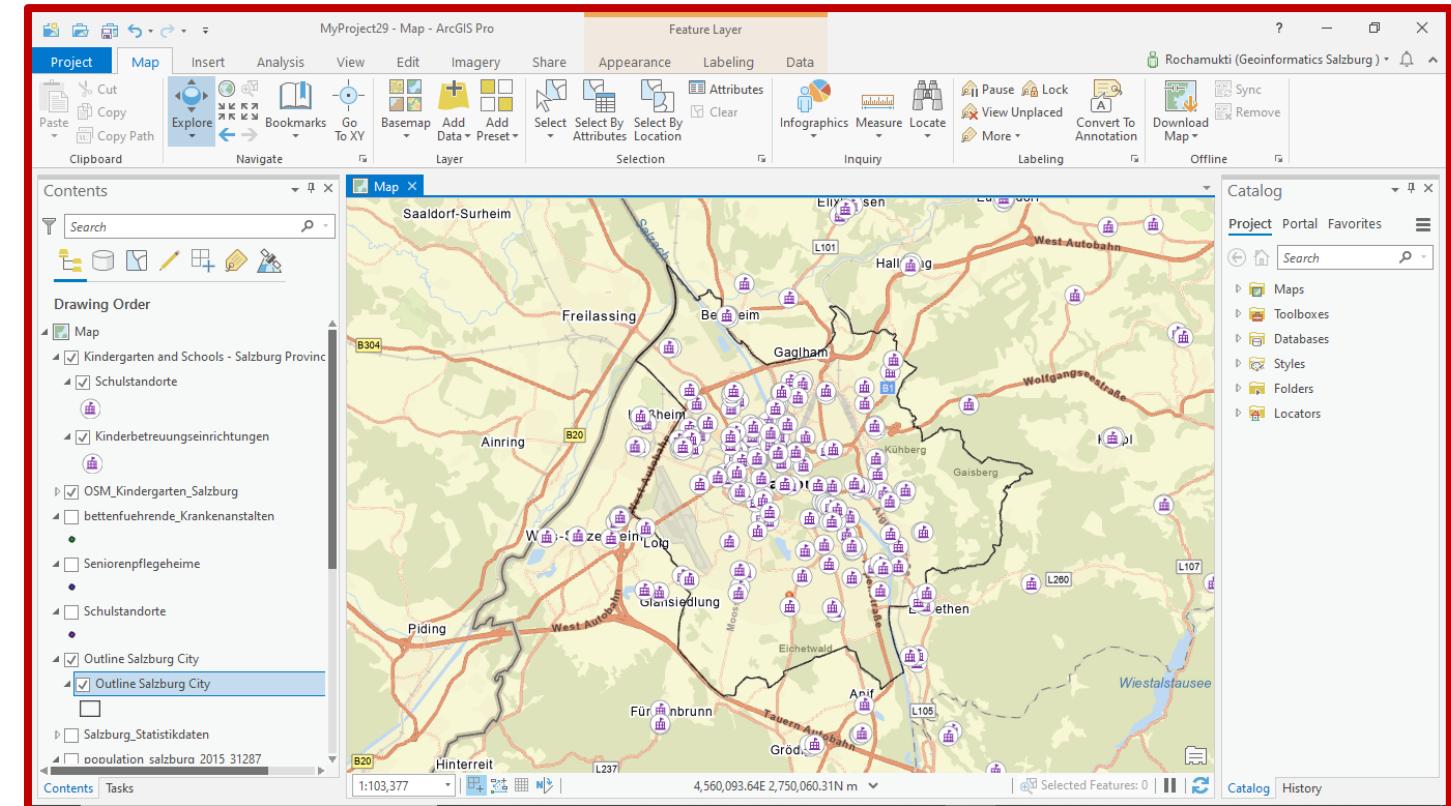
SALZBURG SCHOOLS



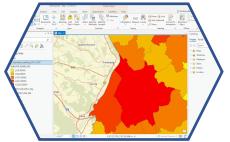
SALZBURG SENIOR
HOUSING



SALZBURG HOSPITALS



DATA COLLECTION



SALZBURG POPULATION
(AGE)



SALZBURG POPULATION
GRID



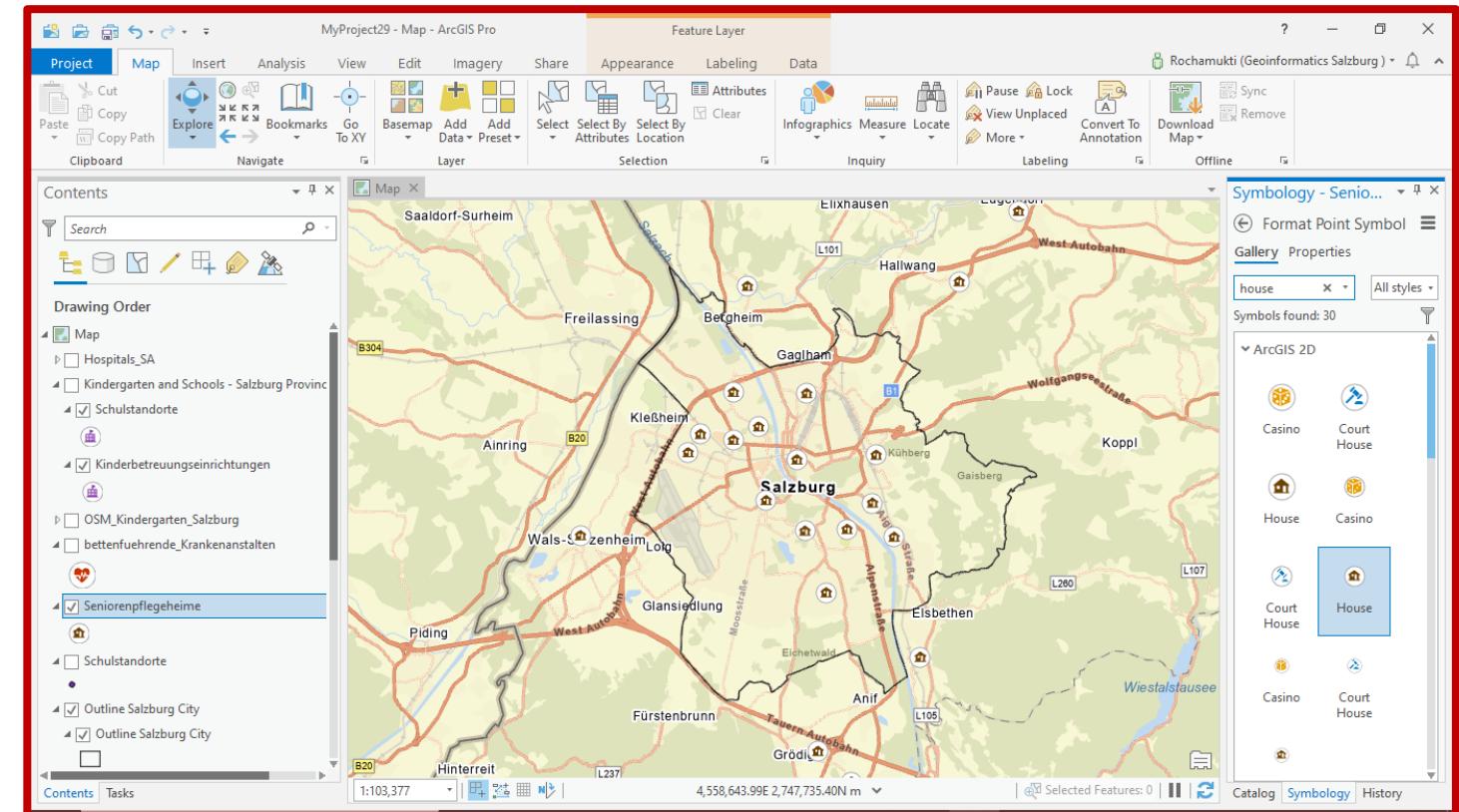
SALZBURG SCHOOLS



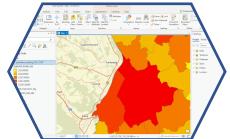
SALZBURG SENIOR
HOUSING



SALZBURG HOSPITALS



DATA COLLECTION



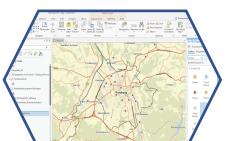
SALZBURG POPULATION
(AGE)



SALZBURG POPULATION
GRID



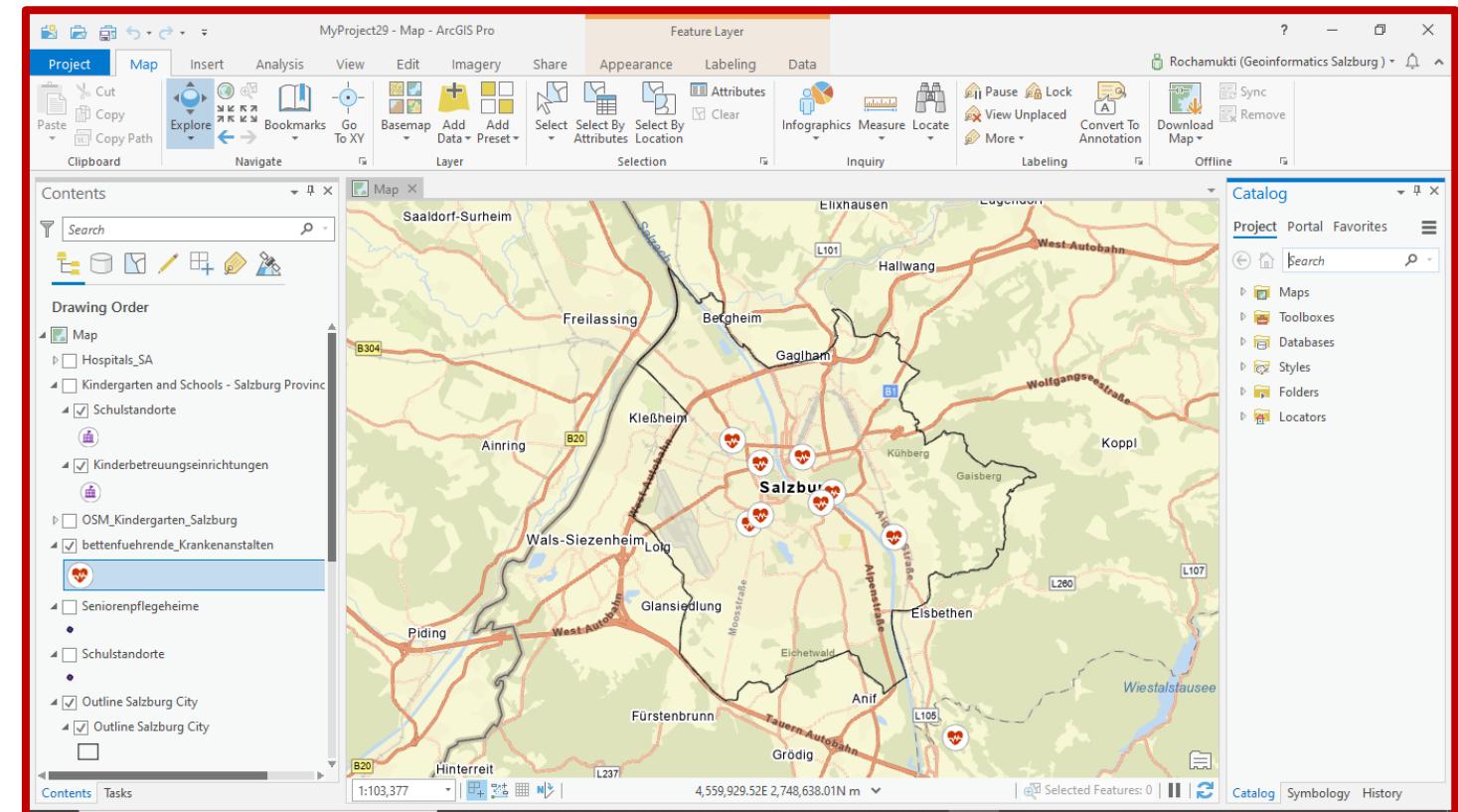
SALZBURG SCHOOLS



SALZBURG SENIOR
HOUSING



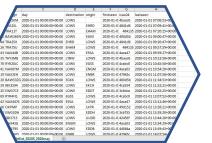
SALZBURG HOSPITALS



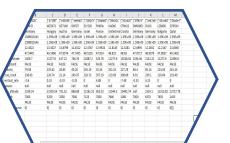
DATA COLLECTION



SALZBURG AIRPORT
AIR TRAFFIC



SALZBURG AIRPORT
FLIGHT LIST

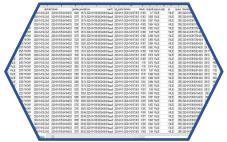


SALZBURG AIRPORT
REAL TIME FLIGHT DATA

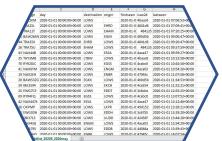
January 2020 to May 2020

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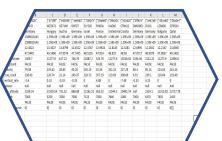
DATA COLLECTION



SALZBURG AIRPORT
AIR TRAFFIC



SALZBURG AIRPORT
FLIGHT LIST



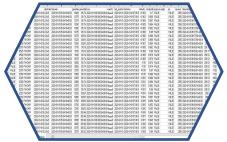
SALZBURG AIRPORT
REAL TIME FLIGHT DATA

January 2020 to May 2020

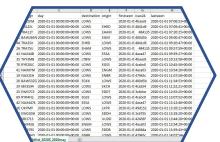
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3	45 TRA25L	2020-01-01 00:00:00+00:00	LOWS	EHRD	2020-01-01 04841d6	2020-01-01 07:09:41+00:00		
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5	21 BAW265N	2020-01-01 00:00:00+00:00	LOWS	EGKK	2020-01-01 0400d5b	2020-01-01 09:00:47+00:00		
6	44 TRA35X	2020-01-01 00:00:00+00:00	EHRD	LOWS	2020-01-01 04841d6	2020-01-01 09:20:47+00:00		
7	26 TRA75U	2020-01-01 00:00:00+00:00	EHAM	LOWS	2020-01-01 0484135	2020-01-01 09:57:59+00:00		
8	43 NAX44B	2020-01-01 00:00:00+00:00	LOWS	ESSA	2020-01-01 04aca47	2020-01-01 09:59:27+00:00		
9	35 THY3MB	2020-01-01 00:00:00+00:00	LTBW	LOWS	2020-01-01 04baac6	2020-01-01 10:13:58+00:00		
10	70 RYR20JC	2020-01-01 00:00:00+00:00	LOWS	EGSS	2020-01-01 04cabco	2020-01-01 10:45:58+00:00		
11	41 NAX6YM	2020-01-01 00:00:00+00:00	LOWS	ENGM	2020-01-01 04aca03	2020-01-01 10:54:20+00:00		
12	19 NAX2EH	2020-01-01 00:00:00+00:00	LOWS	ENBR	2020-01-01 047945c	2020-01-01 11:07:58+00:00		
13	20 BAW53ZG	2020-01-01 00:00:00+00:00	EGKK	LOWS	2020-01-01 0400d5b	2020-01-01 11:34:53+00:00		
14	39 IBK3594	2020-01-01 00:00:00+00:00	LOWS	EKCH	2020-01-01 04ca554	2020-01-01 11:52:21+00:00		
15	25 EWG7CE	2020-01-01 00:00:00+00:00	LOWS	EDDT	2020-01-01 03c6dce	2020-01-01 12:55:25+00:00		
16	69 RYR4FQ	2020-01-01 00:00:00+00:00	EGSS	LOWS	2020-01-01 04cabco	2020-01-01 13:07:52+00:00		
17	42 NAX4474	2020-01-01 00:00:00+00:00	ESSA	LOWS	2020-01-01 04aca47	2020-01-01 13:12:46+00:00		
18	16 OKPMP	2020-01-01 00:00:00+00:00	LOWS	LKPR	2020-01-01 049d152	2020-01-01 13:26:21+00:00		
19	72 EWG3DH	2020-01-01 00:00:00+00:00	LOWS	EDDH	2020-01-01 03c6755	2020-01-01 13:39:20+00:00		
20	14 SBI3713	2020-01-01 00:00:00+00:00	LOWS	UUDD	2020-01-01 042456f	2020-01-01 13:44:28+00:00		
21	40 NAX43G	2020-01-01 00:00:00+00:00	ENGM	LOWS	2020-01-01 04aca03	2020-01-01 13:54:29+00:00		
22	31 EJU4795	2020-01-01 00:00:00+00:00	LOWS	EDDB	2020-01-01 044064a	2020-01-01 13:59:43+00:00		
23	18 NAX3HD	2020-01-01 00:00:00+00:00	FNBR	LOWS	2020-01-01 047945c	2020-01-01 14:07:54+00:00		

flightlist_20205_2020may

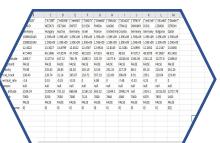
DATA COLLECTION



SALZBURG AIRPORT
AIR TRAFFIC



SALZBURG AIRPORT
FLIGHT LIST



SALZBURG AIRPORT
REAL TIME FLIGHT DATA

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	icao24	[{"3d252b"}]	["471f8f"]	["440396"]	["3e69d3"]	["738075"]	["39a860"]	["89620c"]	["501d20"]	["3ff674"]	["3e47a6"]	["451e8d"]	["06a0e7"]		
2	callsign	DEMID	WZZ471	OE7146	DKFGT	ELY236	FHKDA	UAE46	CTN412	DMGMD	DISIG	LZB438	QTR5JH		
3	origin_country	Germany	Hungary	Austria	Germany	Israel	France	United Ara	Croatia	Germany	Germany	Bulgaria	Qatar		
4	time_position	1589810143	1.59E+09												
5	last_contact	1589810143	1.59E+09												
6	longitude	12.4522	13.3027	13.8799	12.4522	12.4767	12.9924	12.8145	12.3281	12.6995	12.2652	12.2167	13.8565		
7	latitude	47.5445	49.1466	47.9574	47.7435	48.5235	47.814	48.615	48.63	47.6717	48.9079	47.9837	49.1402		
8	baro_altitude	1409.7	11277.6	617.22	746.76	11887.2	525.78	11277.6	10226.04	2194.56	2141.22	11277.6	12496.8		
9	on_ground	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE		
10	velocity	79.08	235.62	28.85	40.28	245.19	52.54	252.24	227.29	68.4	85.14	224.04	261.24		
11	true_track	138.43	126.74	31.14	245.07	118.72	357.19	113.69	308.66	6.91	239.1	120.04	119.49		
12	vertical_rate	-2.6	0.33	-0.33	-0.33	0	4.88	0	-7.48	-0.33	4.23	0	0		
13	sensors	null	null	null	null	null	null	null	null	null	null	null	null		
14	geo_altitude	1539.24	11559.54	731.52	868.68	12161.52	655.32	11544.3	10492.74	null	2324.1	11513.82	12717.78		
15	squawk	7000	5250	7000	7000	7123	7000	7646	1000	7000	6370	7655	1453		
16	spi	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE		
17	position_source	0]	0]	0]	0]	0]	0]	0]	0]	0]	0]	0]	0]		
18															
19															
20															
21															
22															
23															

flight realtime



SANPIC Project

CHALLENGES SO FAR



CHALLENGES (RISKS)



Access to data

(Data unavailability, network connection problem, unsolved bugs)



We had some technical difficulty in obtaining Opensky data (Installing Conda packages and the step-by-step process)



Obtaining in-situ data remains a challenge because of restrictions on airport arrivals and departures due to COVID-19 pandemic



Limited knowledge to some tools



We need to explore more on the capabilities of applications such as NodeRed and the Database Management System to be used.



Time Management and Hardware issues

(Hardware limitation)

SOLUTIONS



Access to data

(Data unavailability, network connection problem, unsolved bugs)

Limited knowledge to some tools

Time Management and Hardware issues
(Hardware limitation)



- Followed the steps on OpenSky
- Installed, uninstalled, installed
- Checked network connectivity
- Identified the data we want to use
- Read and learned tools
- Continuously reading references and literature
- Try and practice
- Reorganized schedule
- Still figuring out how to manage hardware issues (restart computers)

SANPIC Project

OUTLOOK



GANTT CHART/OUTLOOK

NEXT STEPS

Stud | SANPIC Project - SDI



May 27

SANPIC Project SUMMARY



SUMMARY



Team milestones and deliverables have been mostly achieved on time



Communication between team is good.



Most issues have been resolved



Data needed have been obtained so far.



We are quite behind schedule.



In-situ data must be done and finalized ASAP



Gaps or specifics lacking in each work package must be addressed



DBMS must be done ASAP to achieve target goals

E N D



S A N P I C

Salzburg Airport Noise Pollution Impact analysis to City
demographics



CONTACT

Stephanie Tumampos

stephanie.tumampos@stud.sbg.ac.at

Rochamukti Rizcanofana

rochamukti.rizcanofana@stud.sbg.ac.at