

PROCESSING OF AERIAL PHOTOGRAMMETRIC MATERIAL MADE PRIOR TO 1968

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Introduction

- Pursuant to the Construction Act (OG 153/13), a construction is deemed legal regardless of whether it has a construction permit or not, if it was built before or on 15 February 1968.
- Anything constructed, annexed, extended or reconstructed after that date has to have relevant construction documents in order to be considered legal.
- The proof that a construction was built prior to that date is the date of it being recorded in the official records or the aerial photogrammetric shot taken prior to that date.

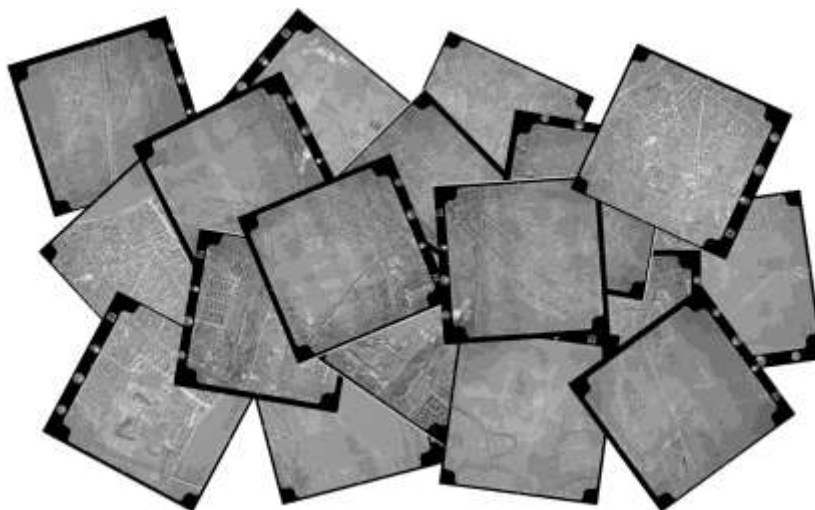


Input data

- In its archives State Geodetic Administration used to have only part of the aerial photogrammetric material made prior to 15 February 1968
- The major part (more than 70%) was located in the archives of the Military Geographical Institute (MGI) in Belgrade.
- With the help of the Ministry of Foreign and European Affairs, the State Geodetic Administration has succeeded in the returning that photographic material to the Croatia

Input data – from MGI

- scanned aerial photogrametric images in scale: 1:3000, 1:4000, 1:5000, 1:6000, 1:7000, 1:8000, 1:10000, 1:20000, 1:32000
- not selective incomplete accompanying documentation
- delivered more than 35,000 images



Methodology of production process

task was to produce as accurate data that will be used for issuing certificates that the construction was recorded prior to 1968.



Methodology of production process

all images are after georeferencing also ortho-rectified with the DTM for increasing of positional accuracy

Without DTM

Only georeferenced



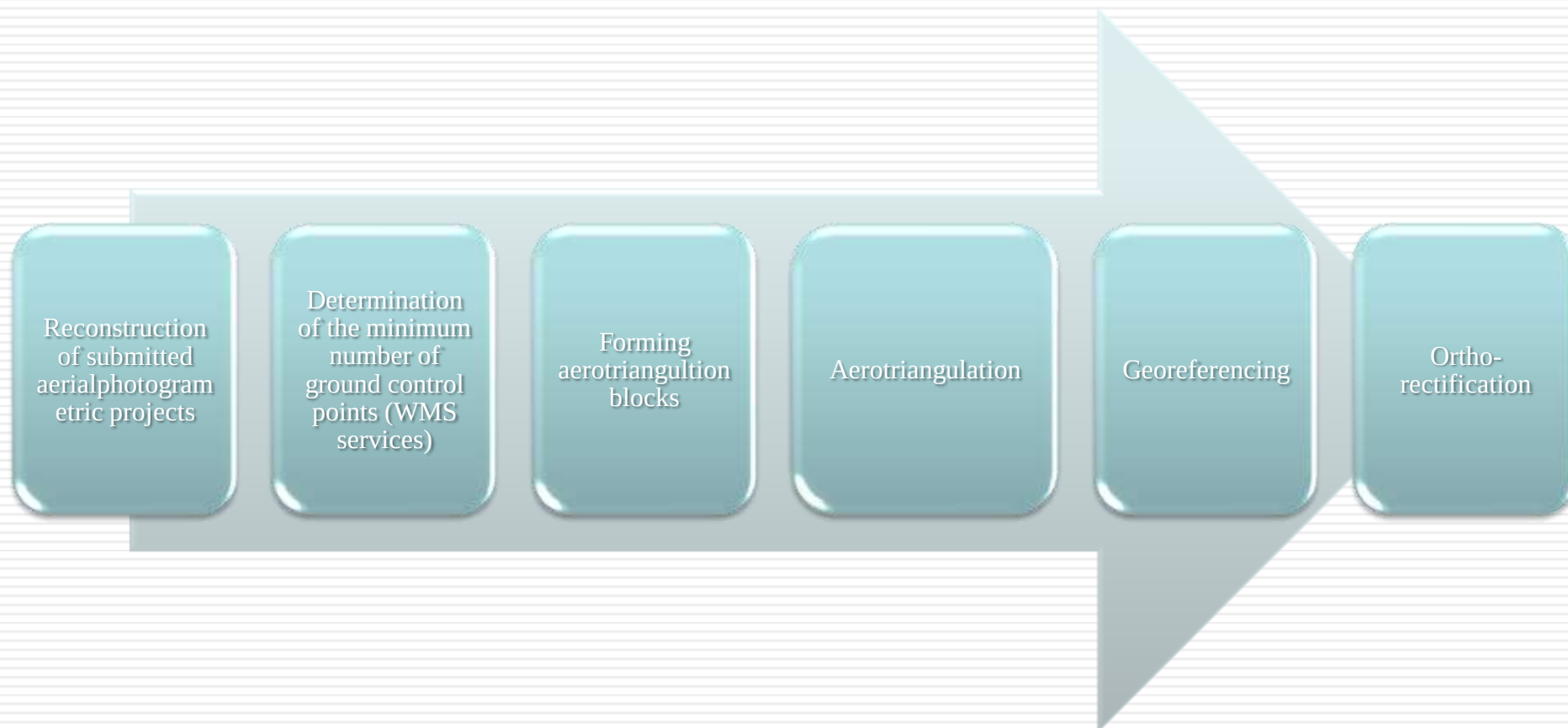
With DTM

Georeferenced + ortho-rectified



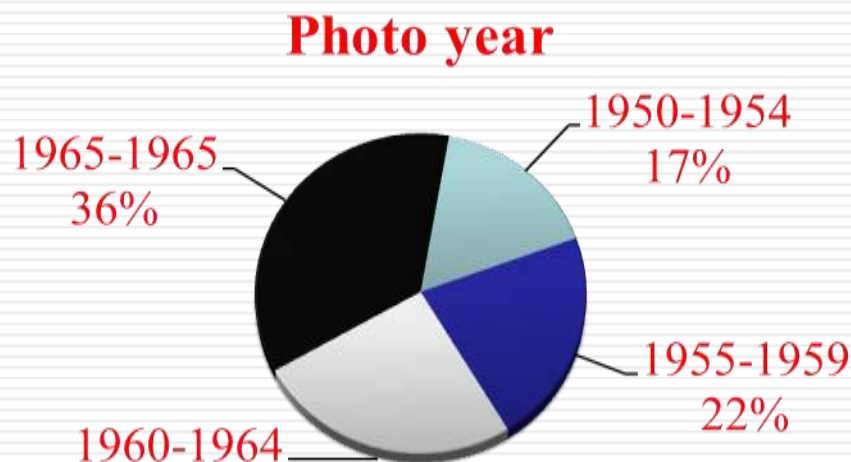


Production process



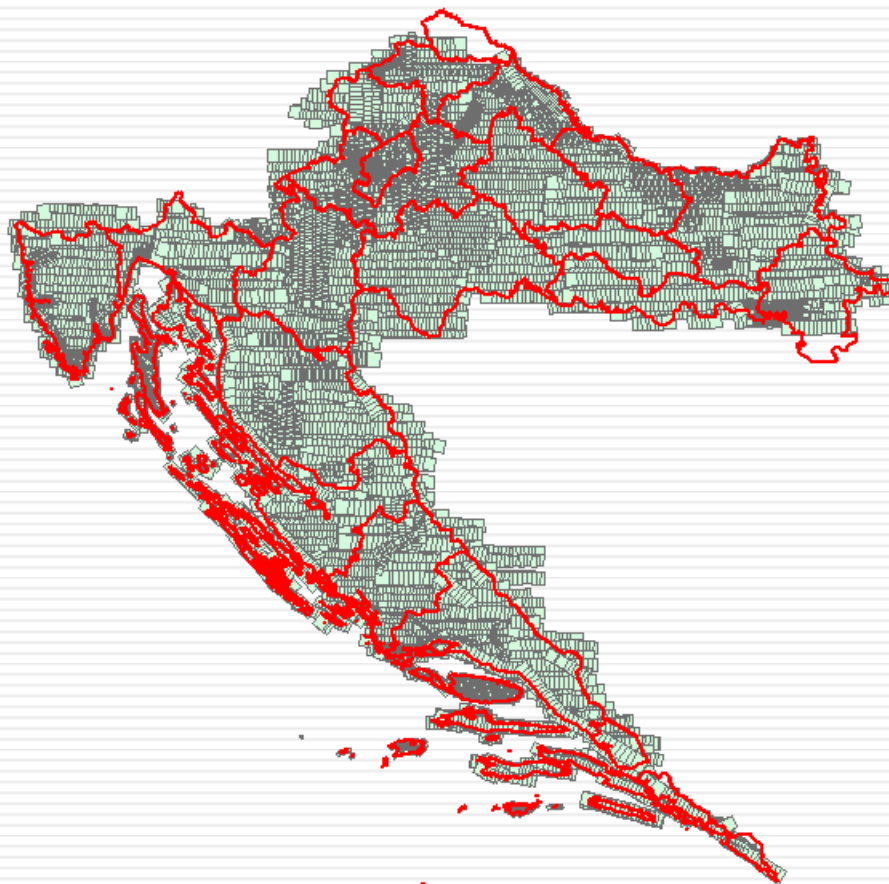
Production process

- agreement signed in October 2013
- during the 9 month were manufactured:
 - 33,690 georeferenced and ortho-rectified images
 - In 105 different projects
 - In 43 different scales (from 1:5000 to 1:32000)



Results

- covered more than 90% of the territory
- some areas covered in 3 or more different scales and photo year (eg area of Zagreb)



Results

Were produced a high quality and very usable product for others purposes

2011

1968



2011

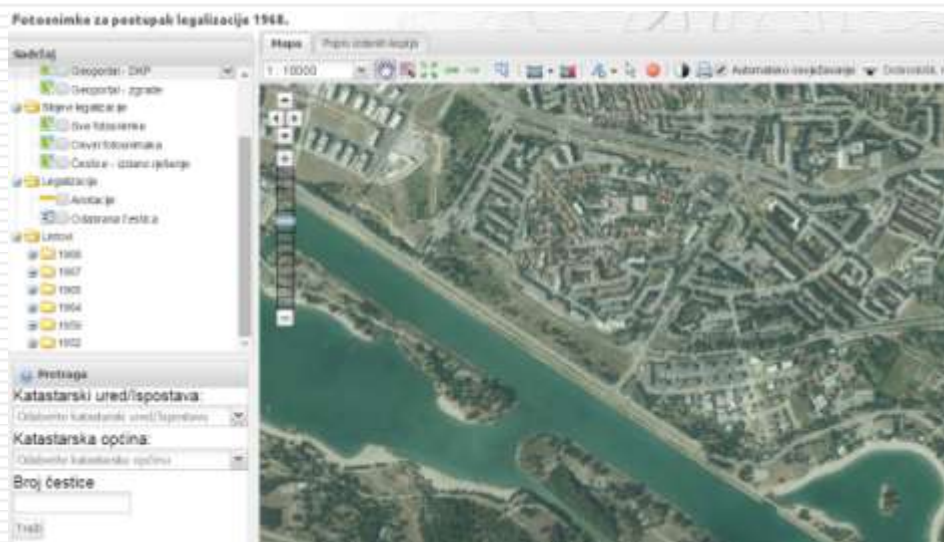
1968



Zagreb, 11. October 2014.

Results

- concurrently with the completion of the contract into operation was put also geoportal for certificate authority in intranet of SGA





Zagreb – Jarun lake



2019

Zagreb, 11. October 2014.



Zagreb – Avenue mall Siget



1968



Zagreb, 11. October 2014.



Zagreb – Dugave



1968



Zagreb, 11. October 2014.



Zagreb – student camp Sava



1964



Zagreb, 11. October 2014.



Opatija



1968



Zagreb, 11. October 2014.



Split



1960



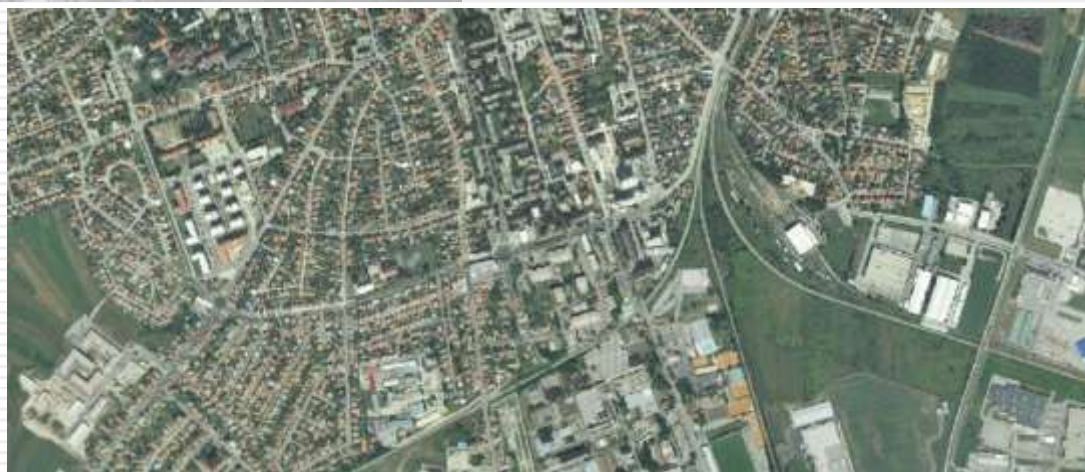
Zagreb, 11. October 2014.



Varaždin



1959



Zagreb, 11. October 2014.



Vinkovci



1962



Zagreb, 11. October 2014.



Conclusion

- This project is primarily designed for the purpose of proving the legality of the building and for speeding up the process of issuing certificates
- But this „historical puzzle” can offer answers for many other questions

do you agree ??



Thank you for your attention!