COVER PAGE

Team members: Commissioner: CGI, Robert Voûte

Chenyue Li

Sehan Shetty Expert: Benjamin Brede

Rinus Vijftigschild

Tara Kraaijeveld Coach: Ioannis Athanasiadis

Xinzhi Wu

1. Organizational Context

Name Project	Group 3
Date	2020-05-29
Chair group	Geo-information Science and Remote Sensing
	(GRS)
GRS Supervisor	Dr.Ioannis Athanasiadis
Start Date Project	2020-06-22
File Name	DataManagementPlan_2.0.doc

2. Description Project

3. Data Management Roles

Who is collecting data?	Group 3 & Harm (Zebedee data)
Who is analysis data?	Group 3
Other	No
Role supervisor	Supervision, no data collection/analysis/storage

4. Project Data

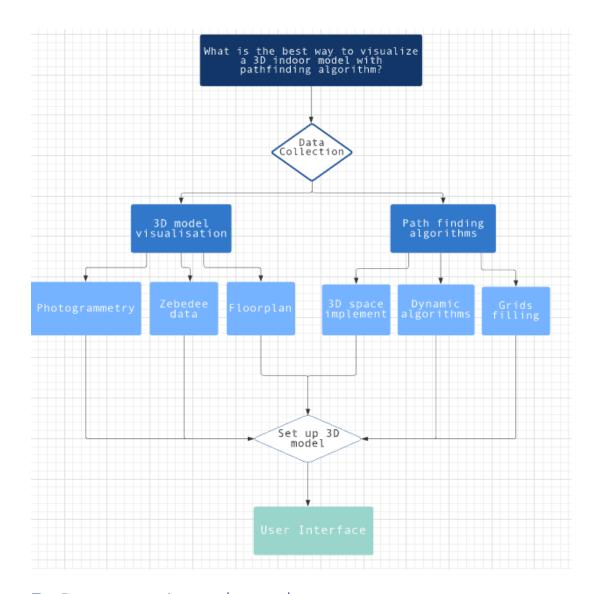
Data stage	Data type	Software choice	Data size
Source data	Camera photos	Meshroom	
	Zebedee data	MeshLab & Blender	537,541KB
	Floorplan	Blender & Unity	4993.03 KB

Result data	3D Gaia model	Blender & Unity	41.7 MB
	UI app	Unity	1,73 GB
Models/code	Gaia Groundfloor model & first floor model	Blender & Unity	50 MB
	Gird for path finding	Unity	216MB
	Path finding algorithms	C# & Visual studio	64.5KB

5. Short Term Storage Solution

Data stage	Storage location	Back up Procedures (storage medium/how often)
Source Data	Google Drive/ Github	Backup in external hard disk/when needed
Result data	Google Drive/ Github	Backup in external hard disk once a week
Models/code	Google Drive/ Github	Backup in external hard disk once a week

6. Data Structure and Naming Structure



7. Documentation and metadata

Dataset	Content	Context	Process
Camera photos	Images of C0093	Who: Sehan, Rinus,	Processed by
		Chenyue	Meshroom
		Why: for 3D visualisation	Failed to make 3D
		purpose	model
		How: collected by a	
		Canon 80d	
Zebedee	Point cloud of whole Gaia	Who: Tara, Xinzhi,	Processed by MeshLab
		Chenyue, Harm	and Blender
		Why: for 3D visualisation	Failed to make 3D
		purpose	model
		How: collected by	
		Zebedee Lidar scanner	
Floorplan	dwg files of floorplan	Who: Rinus	Processed by Blender
		Why: for 3D visualisation	and Unity
		purpose	Succeed in making 3D
			model from floorplan

		How: given by Coordinator of Gaia Property Information	
Grids	The grids for presenting the floors and stairs	Who: Xinzhi Why: environment for implement path finding algorithms How: copy paste cubes to the building and avoid the walls	Processed by Unity
Algorithms	Script for path finding	Who: Sehan, Xinzhi Why: To find a path between player and exit dynamically How: Writing codes in Visual Studio	Processed by Visual Studio with C# for Unity environment
Prototypes	Two prototypes: • Exe file • Online file	Who: Rinus Why: for 3D visualisation purpose How: Created by combining all components in unity	Exported from unity using webgl

8. Sharing and Ownership

Sharing and ownership	With what/who/how
Data sharing	Data will be shared with CGI afterwards, as well
	as with any potential clients afterwards.
Data ownership	This depends on the source of the data. 3D data
	that is created by us will belong to us. If we
	collect data from other sources, be it CGI or an
	online source, the data will belong to these
	parties respectively.
Privacy	Privacy issues could arise if localization
	methods are used. In this case, the privacy
	issues are the responsibility of the user, I.e. the
	buyer of the product.

9. Long term storage

Yes or no?	Argumentation	
Yes	Our project will be published online in order	
	to be accessible for the coming years.	