

MAPPING THE
VIA APPIA



3D GIS

Mapping the
Via Appia



Rens de Hond

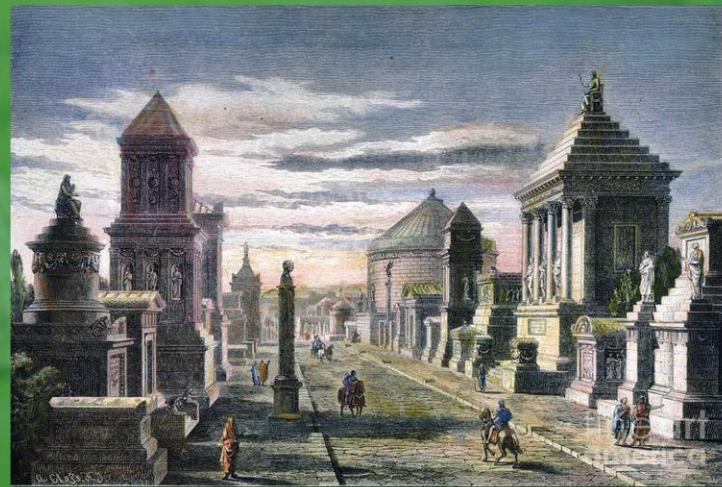
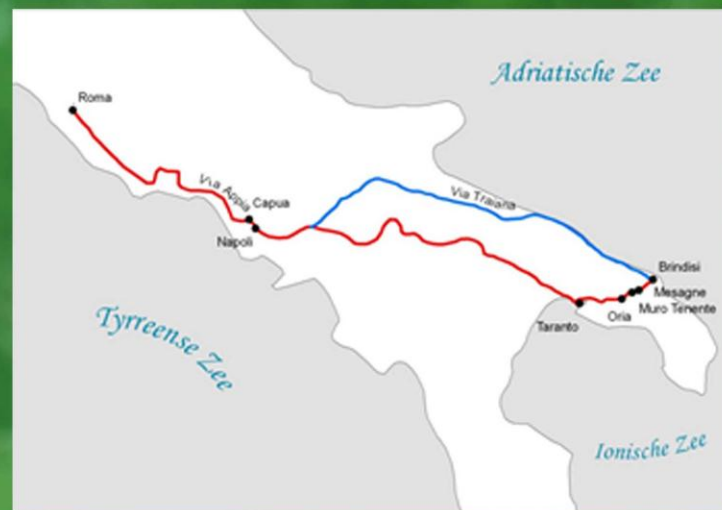
Radboud University Nijmegen
VU University Amsterdam (SPINlab)

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Radboud University Nijmegen



Excavation



Architectural survey



Geophysical prospecting & remote sensing



Field survey



Historical research



3D GIS



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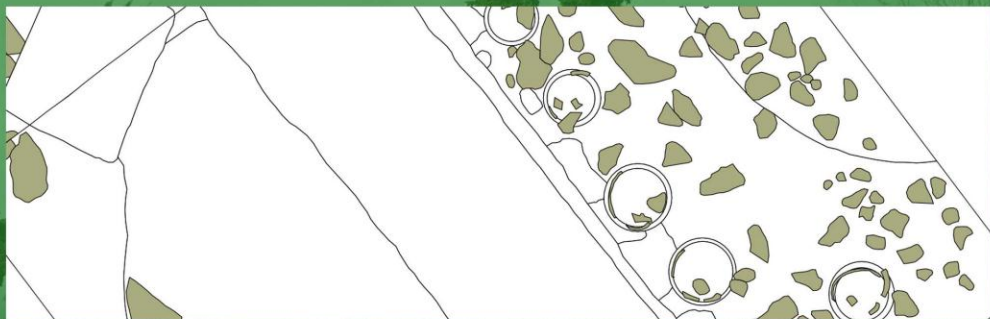
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SPIN | LAB
SPATIAL INFORMATION LABORATORY

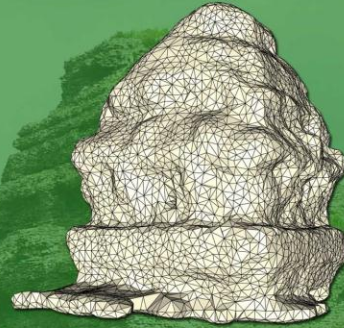


GEO DELTA

1 From physical reality to virtual 3D

2 From 3D models to 3D GIS

3 From 3D GIS to archaeological reconstruction



3D GIS



1 From physical reality to virtual 3D

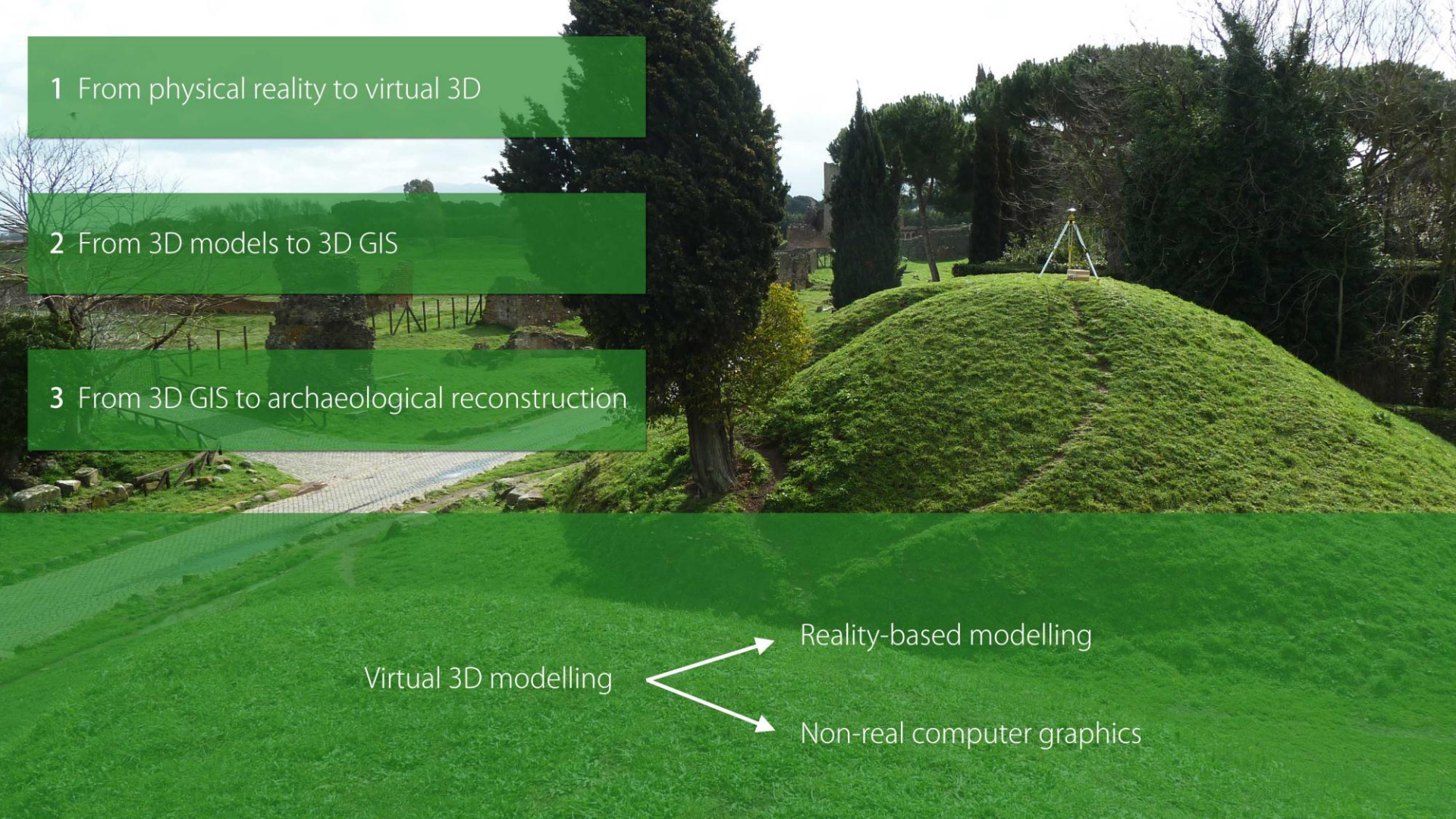
2 From 3D models to 3D GIS

3 From 3D GIS to archaeological reconstruction

Virtual 3D modelling

Reality-based modelling

Non-real computer graphics



1 From physical reality to virtual 3D

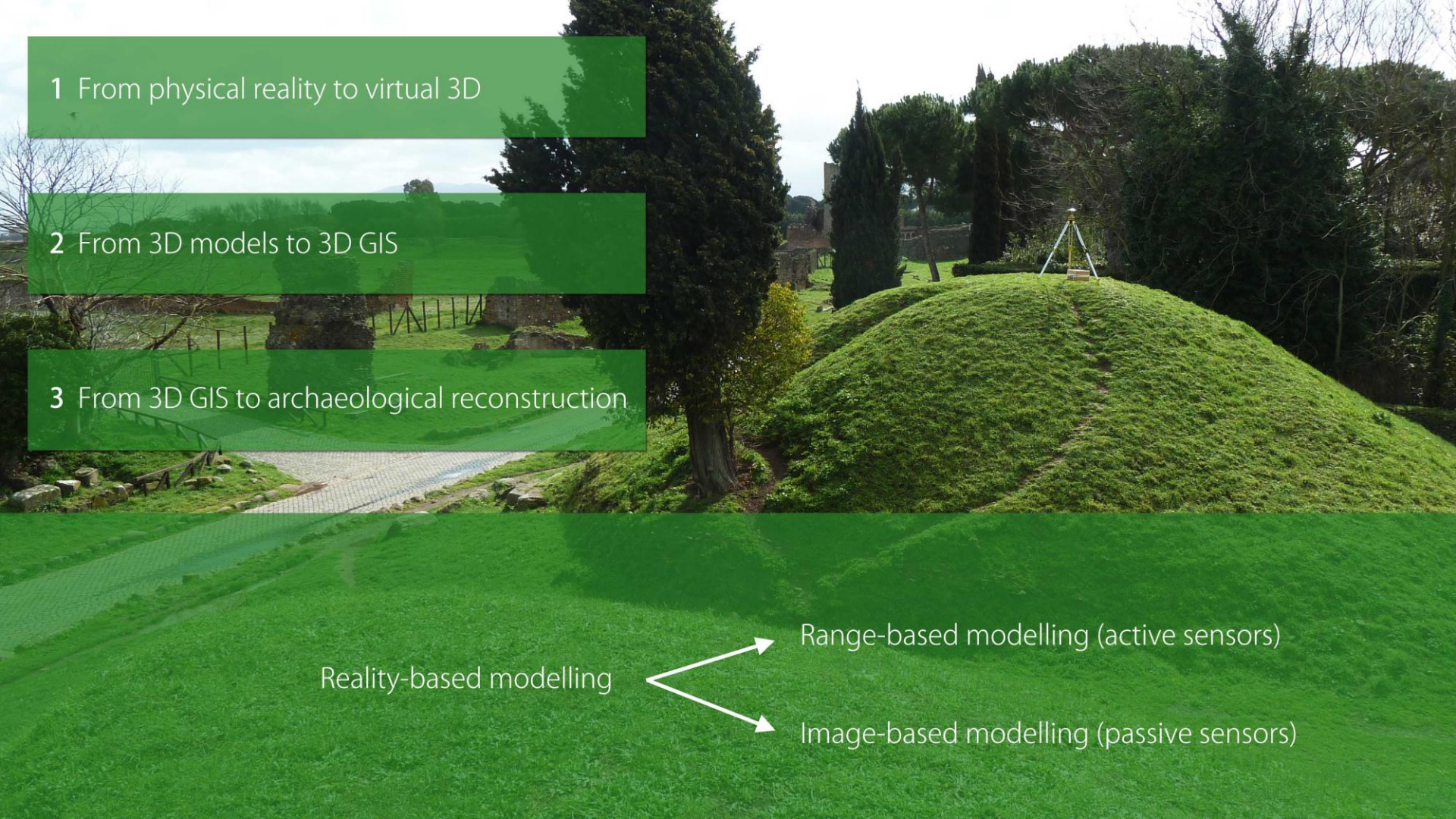
2 From 3D models to 3D GIS

3 From 3D GIS to archaeological reconstruction

Reality-based modelling

Range-based modelling (active sensors)

Image-based modelling (passive sensors)



1 From physical reality to virtual 3D



123D Catch

MeshLab

CloudCompare

2 From 3D models to 3D GIS

3 From 3D GIS to archaeological reconstruction



1 From physical reality to virtual 3D



123D Catch

MeshLab

CloudCompare

2 From 3D models to 3D GIS

ArcScene

CityEngine



3 From 3D GIS to archaeological reconstruction



1 From physical reality to virtual 3D



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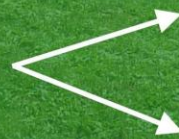


3 From 3D GIS to archaeological reconstruction

Non-real computer graphics

Manual 3D modelling

Procedural modelling



1 From physical reality to virtual 3D



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MeshLab

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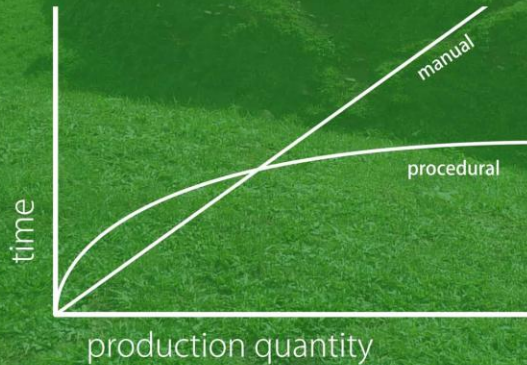
2 From 3D models to 3D GIS

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CityEngine



3 From 3D GIS to archaeological reconstruction



1 From physical reality to virtual 3D



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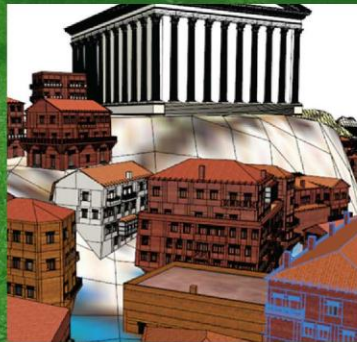
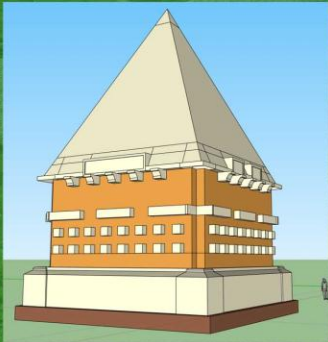
CityEngine



3 From 3D GIS to archaeological reconstruction



CityEngine



Rules	LOD	3
Rules	LODX	-1
Rules	RED	#f00
Rules	RoofColor	#e6e6e6
Rules	RoofOverhang	0.8
Rules	STYLE	rich
Rules	TileWidth	2
Rules	WallColor	#e6e6e6
Rules	WallThickness	0.45
Rules	WindowHeight	1.2
Rules	WindowInset	0.5
Rules	WindowSpaceBottom	1
Rules	WindowSpaceTop	0.5
Rules	WindowWidth	1
Rules	archways	2
Rules	archSideSpace	0.8
Rules	archTopSpace	0
Rules	archIn_Inv	face
Rules	arcwallThickness	1
Rules	balconies	true
Rules	balconyArcBeamHeight	0.2
Rules	balconyArcSize	1.2
Rules	balconyArcSpaceSize	0.5
Rules	balconyArcType	1
Rules	balconyBeamDist	0.6
Rules	balconyBeamExt	0.016





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