





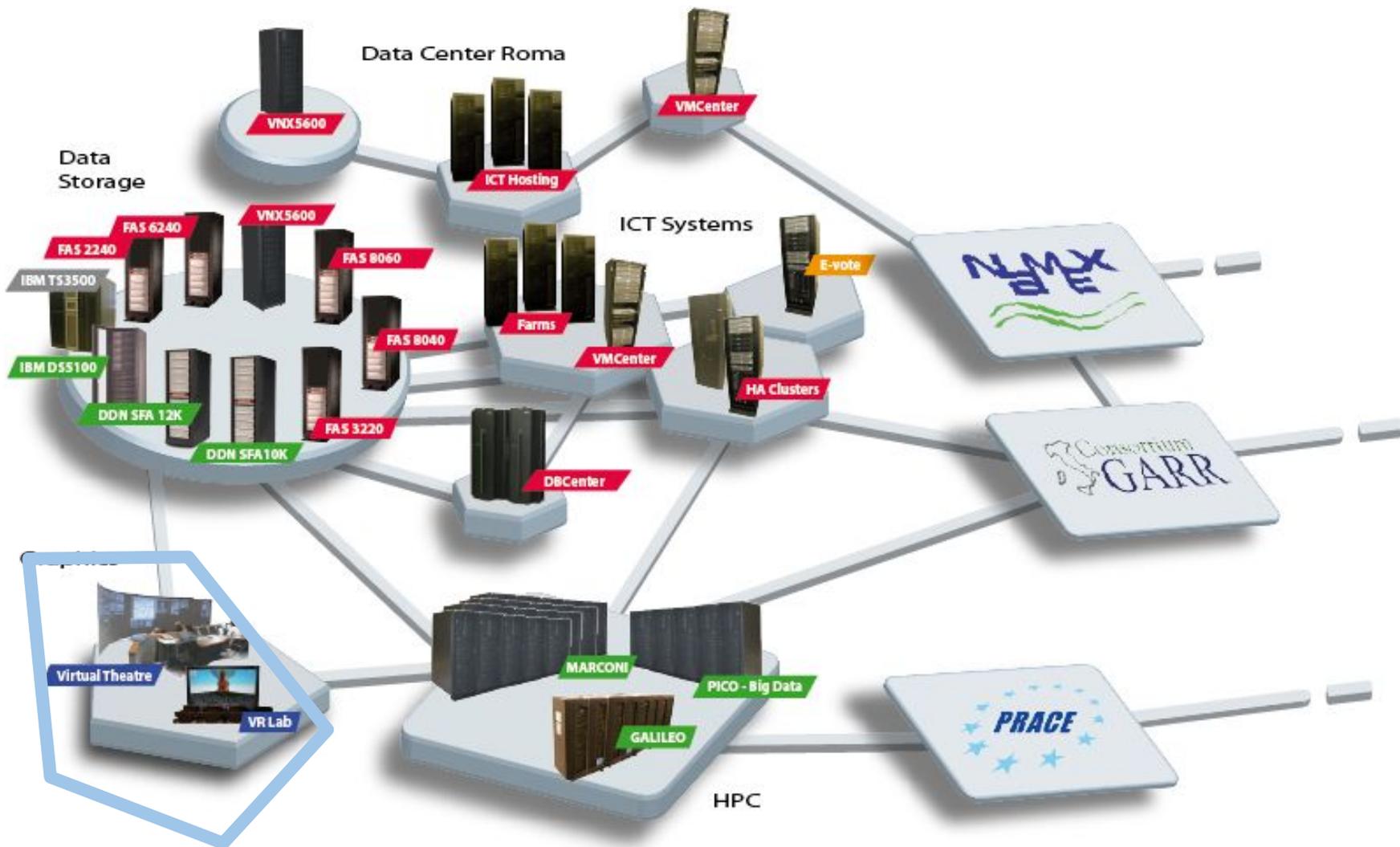
VISIT LAB

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TECHNOLOGY LAB

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HPC Environment

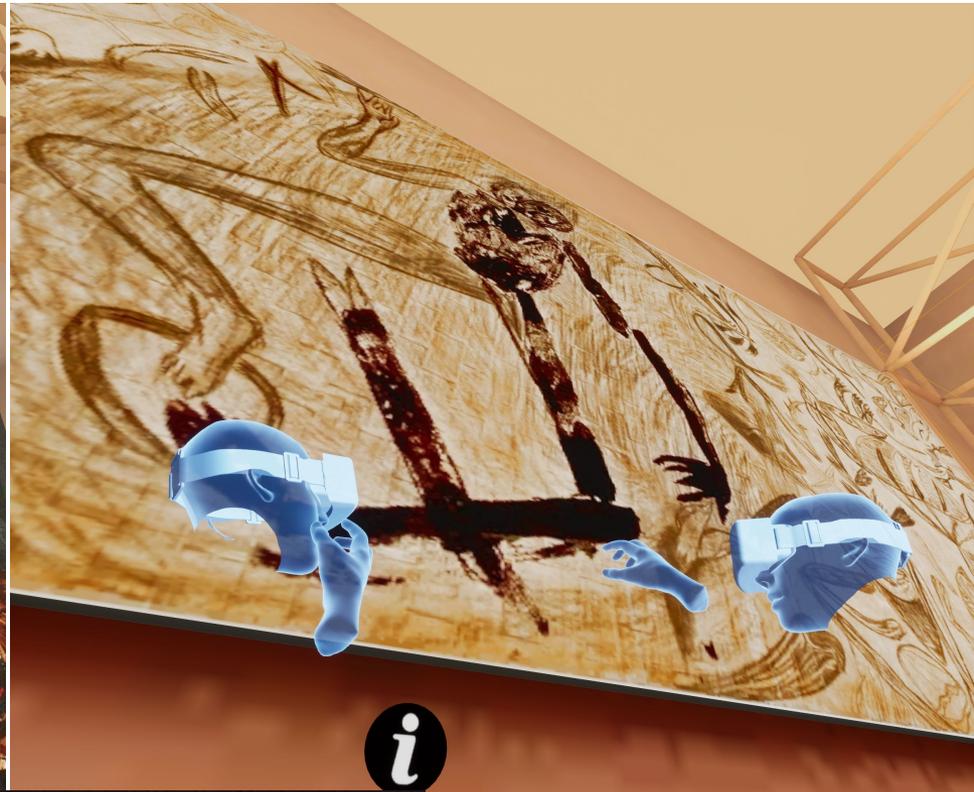


Crossmedialità
Sperimentazione
Riutilizzo



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Terrae motus (VR collaborativo)



Virtual Studiolo/Multicampus Irvine

Soluzioni

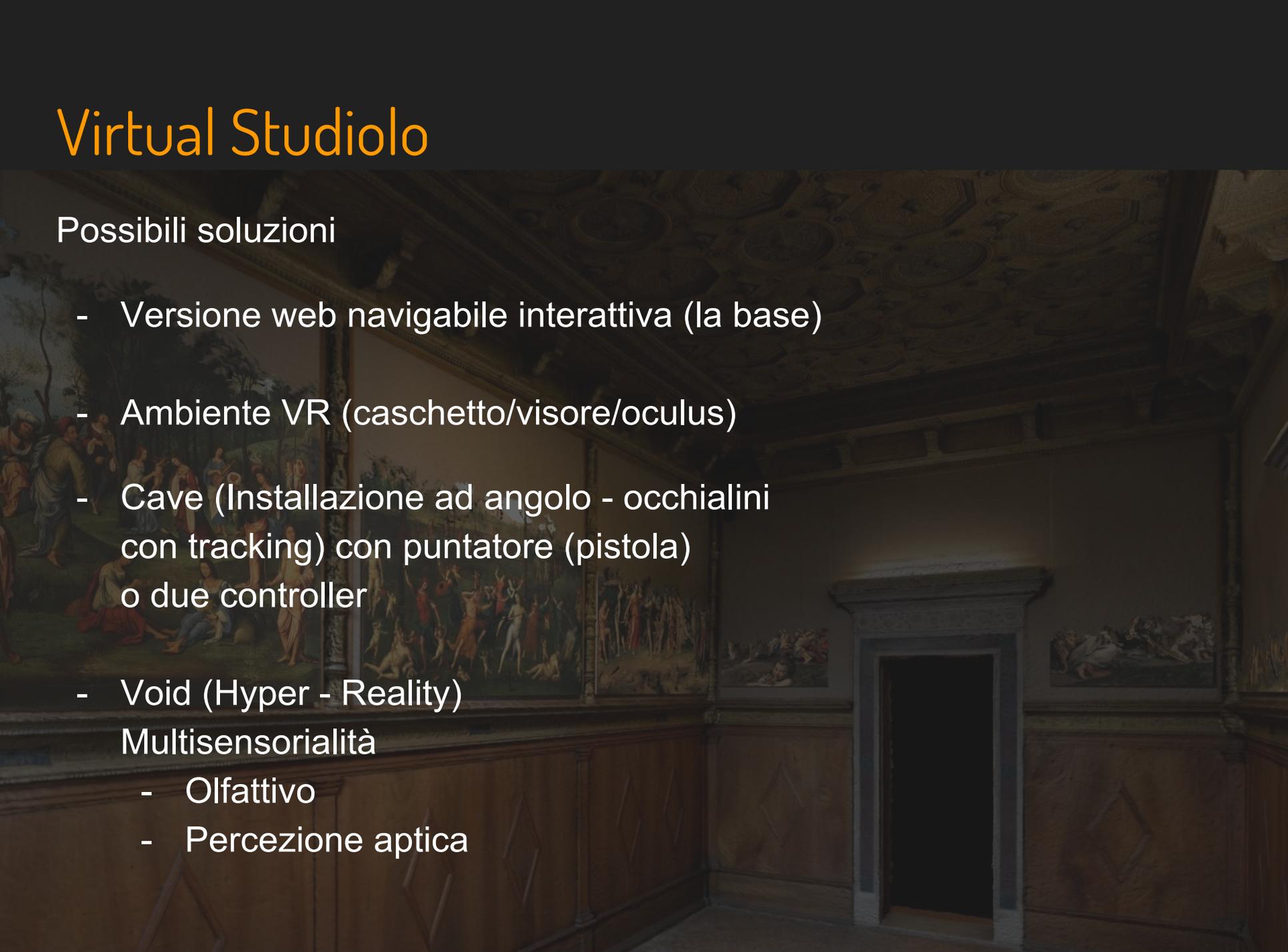
Individuazione del target:

- studenti
- docenti
- ricercatori
- pubblico generico
- altro

(ricordiamoci che il modello
è sempre lo stesso declinabile
in più soluzioni/realizzazioni)



Virtual Studiolo

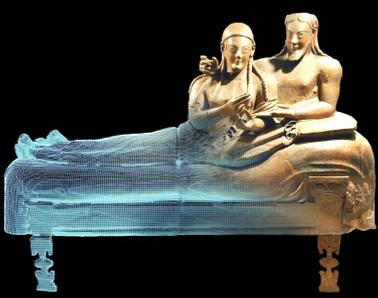


Possibili soluzioni

- Versione web navigabile interattiva (la base)
- Ambiente VR (caschetto/visore/oculus)
- Cave (Installazione ad angolo - occhialini con tracking) con puntatore (pistola) o due controller
- Void (Hyper - Reality)

Multisensorialità

- Olfattivo
- Percezione aptica



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Horizon 2020 project led by **9 European cultural institutions** (film and audiovisual archives from 8 countries), to share, provide access to, and use their digital content, turning it into the lever of novel approaches to multidisciplinary research (in fields like urban history, town planning, sociology, anthropology, etc.), to business innovation and to the overall accessibility of the European cultural heritage. As an experimental innovation action, **the project focuses on cities** and on the digital content that refers to cities within **9 audiovisual libraries** in 9 cities in 8 European countries. Different **interfaces, user experiences, services and functionalities** will be tailored to serve research activities and the general public. Advanced, interactive and innovative visualization solutions will be implemented that will display the digital content in different ways depending on the choices of the users (e.g. on the map of a cities, on a timeline, or on a 'timelined map' that changes with the changing of the periods).

<http://www.imediacities.eu>

Agile approach

Deep learning Object detection



Museo delle Terre Nuove - 14 Ottobre



MUSEO DELLE
TERRE NUOVE



Museo delle Terre Nuove - Palazzo d'Arnolfo, San Giovanni Valdarno (AR)

<http://www.museoterrenuove.it/>

- Valorizzazione del territorio
- Didattica

video

Mixed Media



Live shots



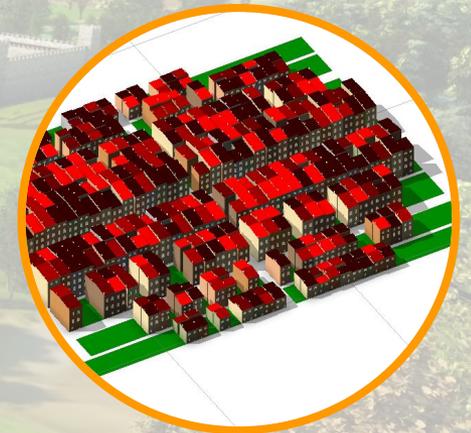
2D drawing



3D modeling



Google Earth

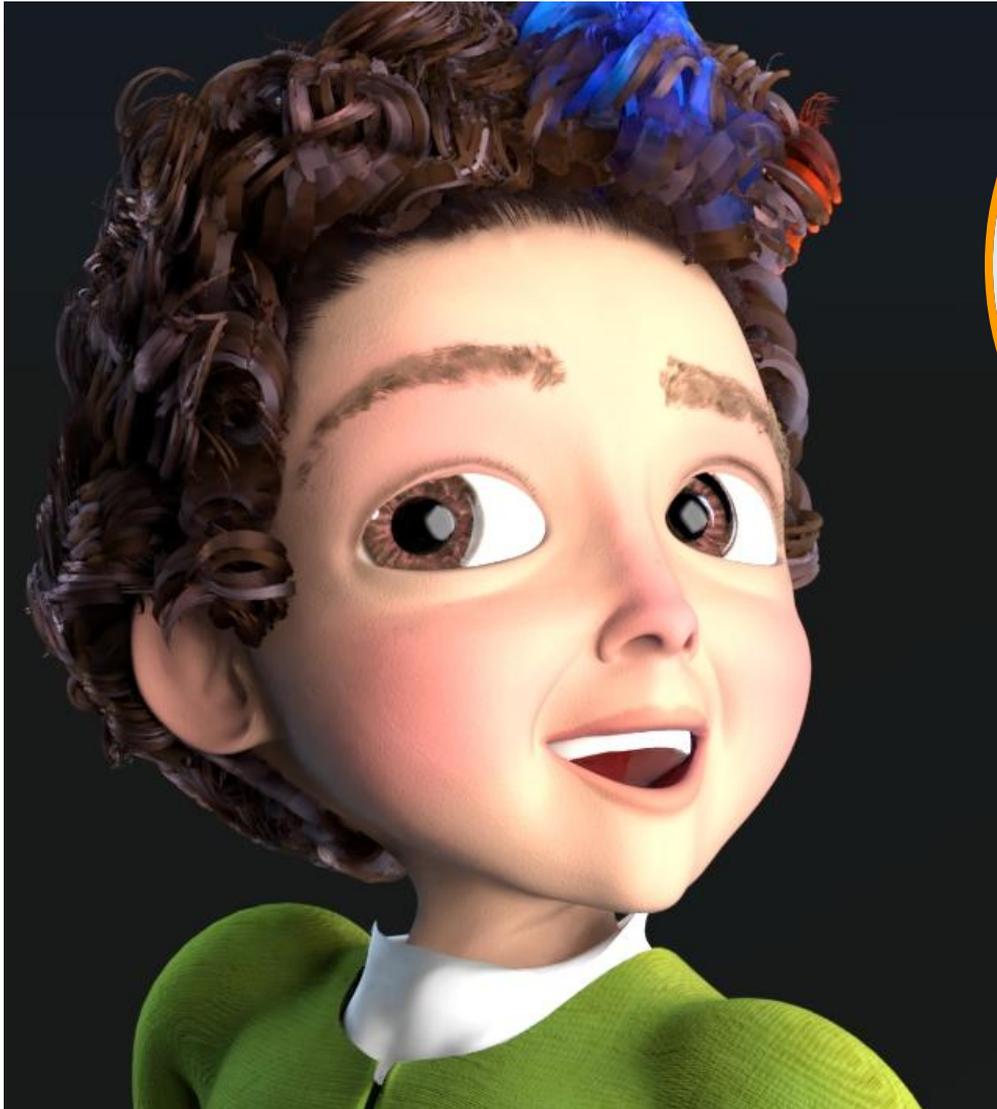


Procedural modeling

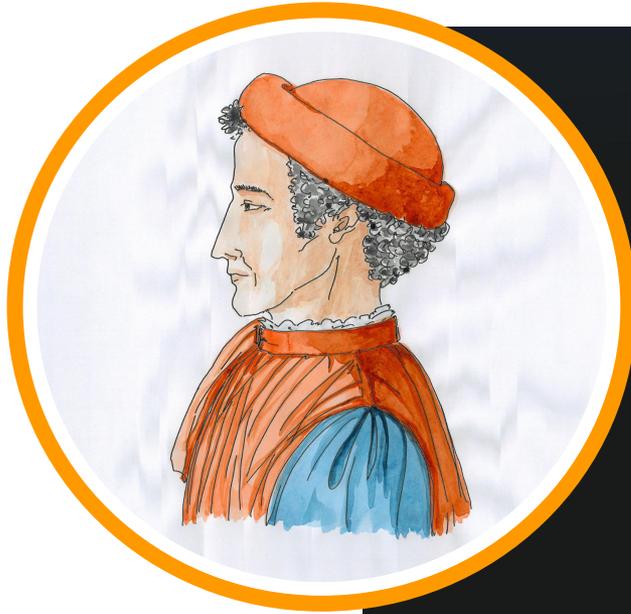
Google Earth



The young Tommaso



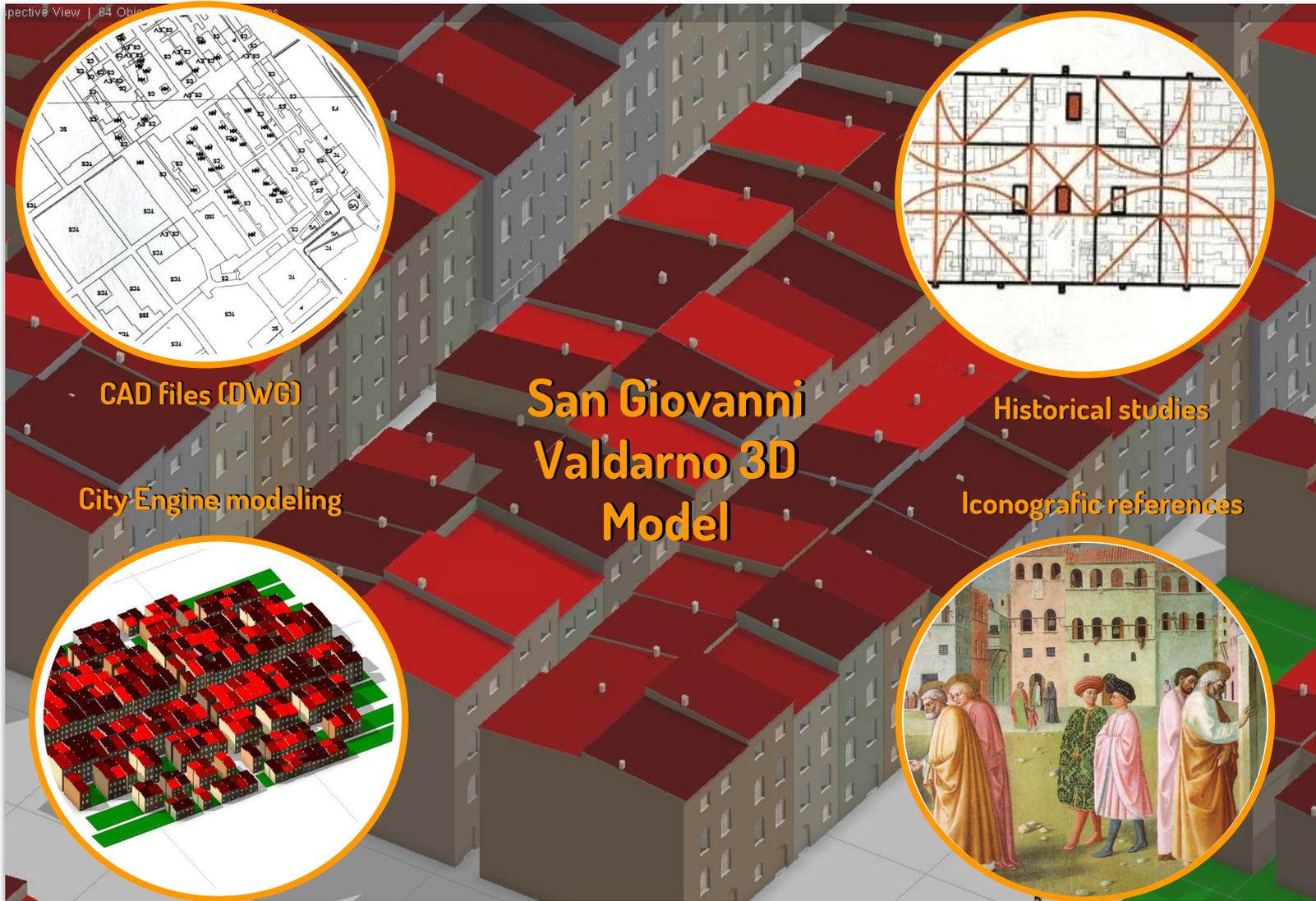
The Vicar



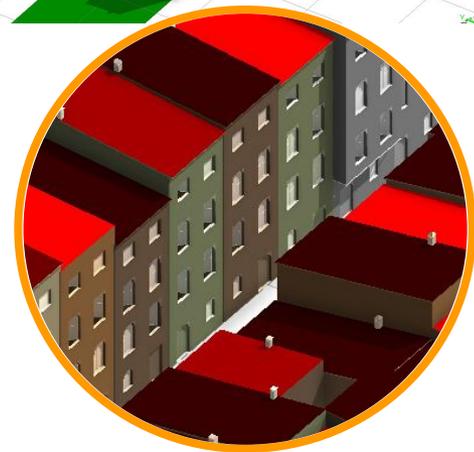
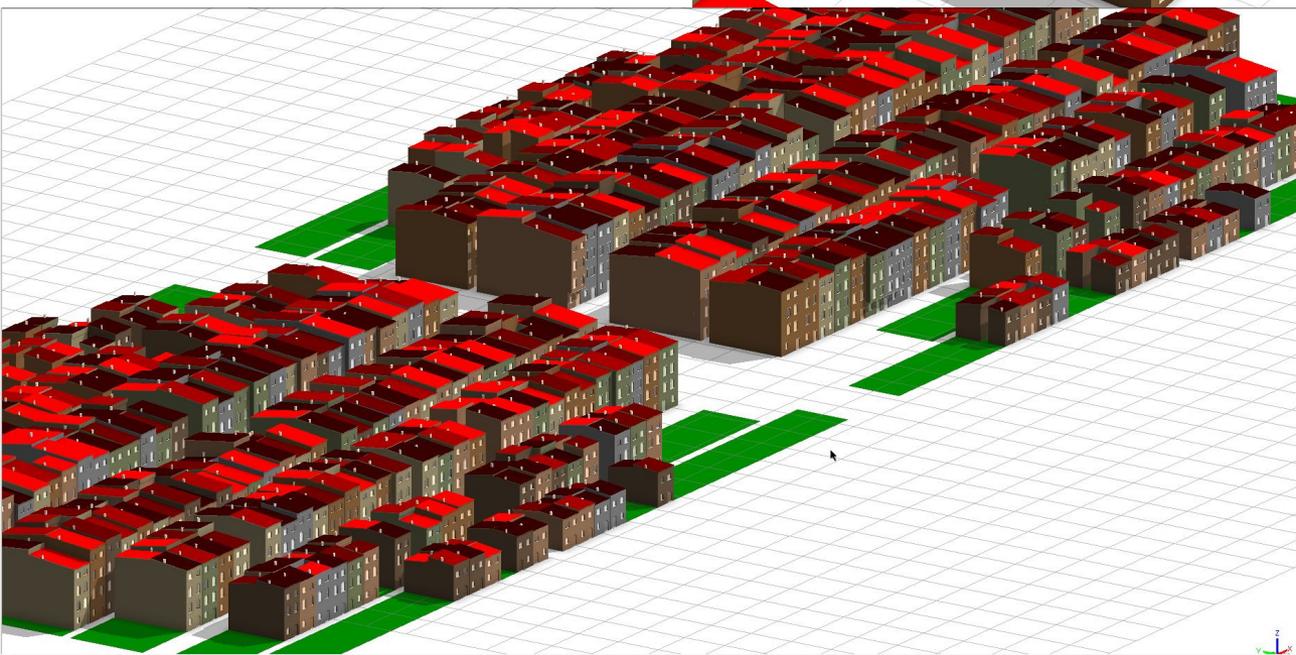
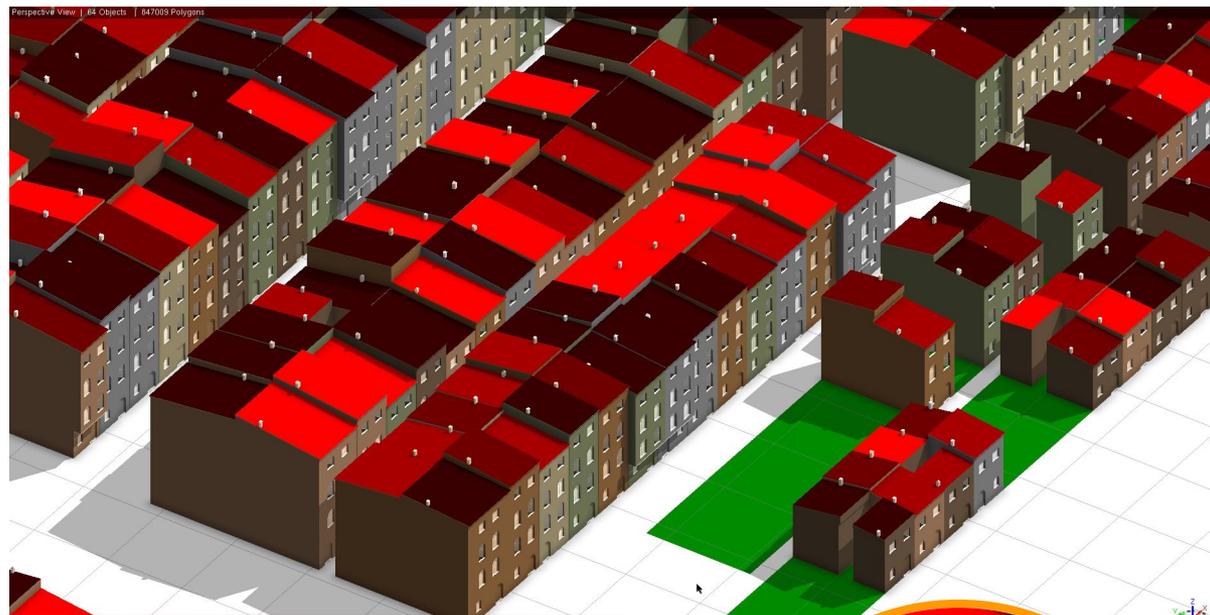
Cloth simulations



Procedural modeling



Procedural modeling - City Engine



Blender, an Open Pipeline

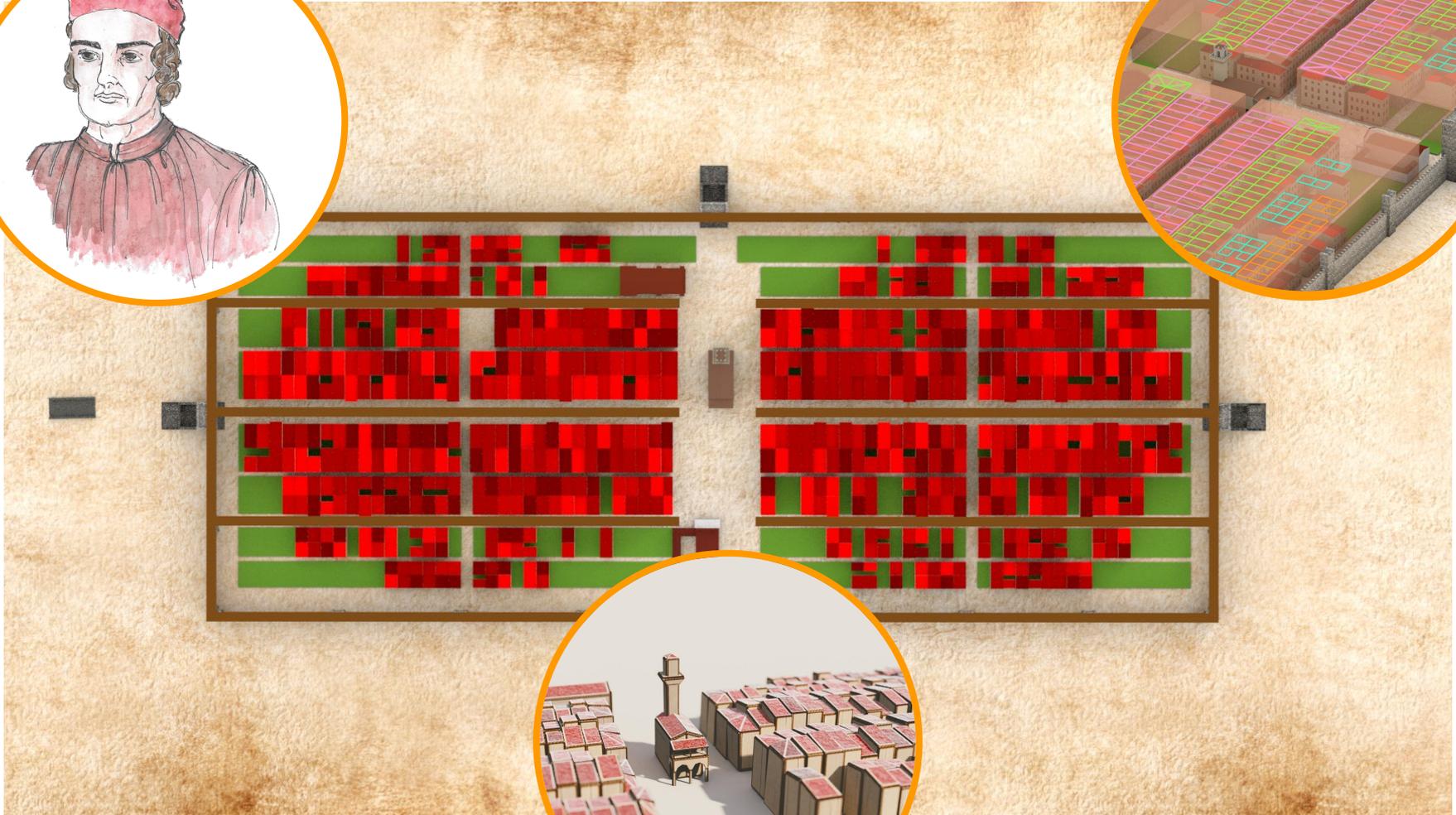
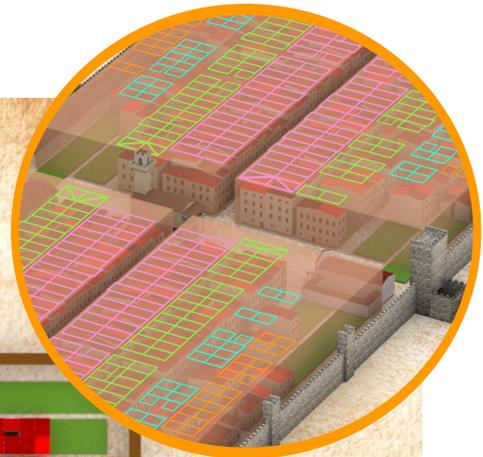
<https://www.blender.org>



2D into 3D - Props



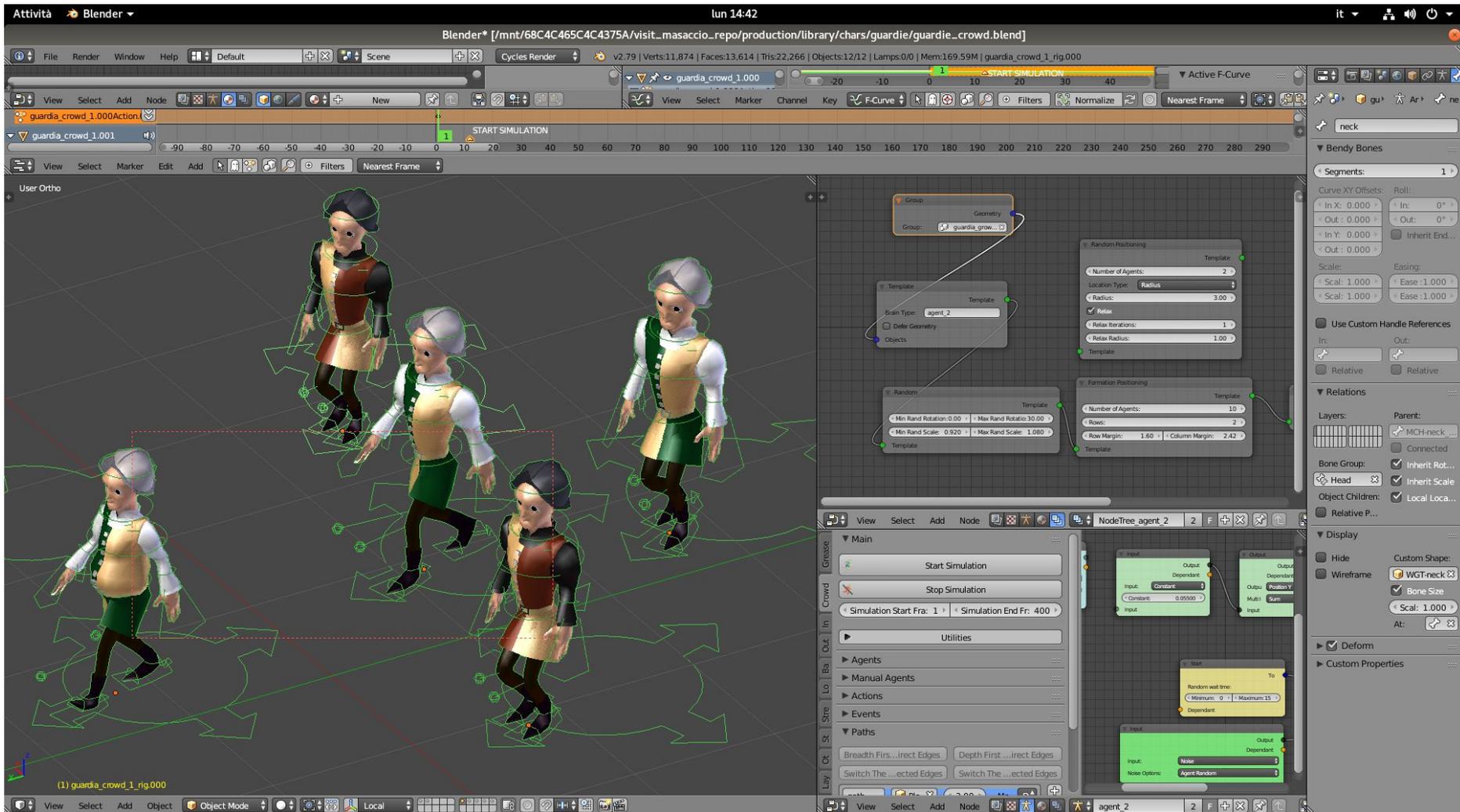
Matrix of Arnolfo



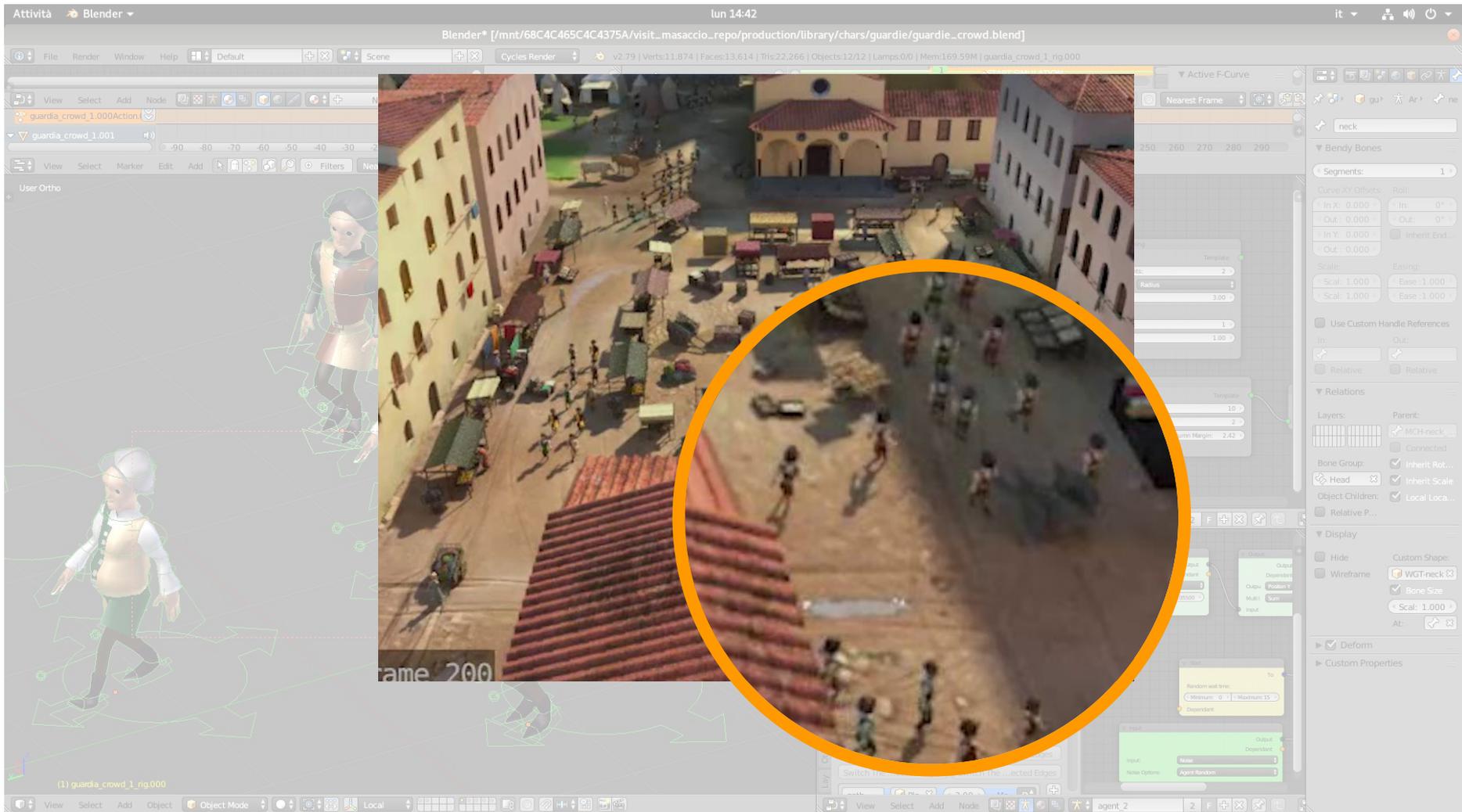
Materials from photogrammetry



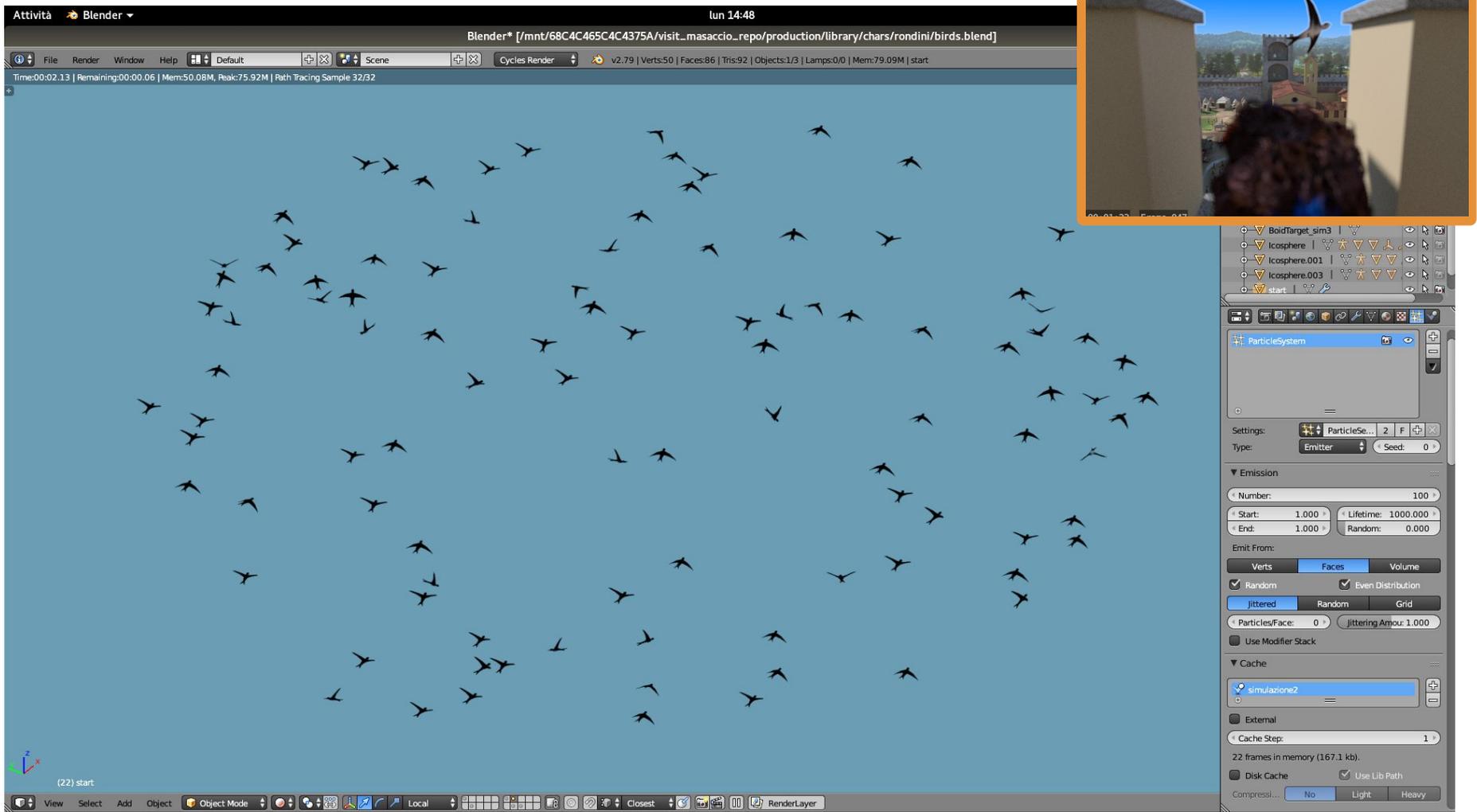
Crowd simulation



Crowd simulation



Birds simulation



Blender Render Farm

() node391 - Konsole

File Edit View Bookmarks Settings Help

```
load average: 31.11, 31.05, 22.54
0 stopped, 0 sleeping, 0 zombie
0 wa, 0.0 hi, 0.0 si, 0.0 st
4 used, 2756560 buff/cache
0 used, 12520939+avail Mem
KiB Mem: 13142096+total, 12522182+free, 5102276 used, 1096864 buff/cache
KiB swap: 16383996 total, 16383996 free, 0 used, 12587872+avail Mem
```

() node392 - Konsole

Edit View Bookmarks Settings Help

```
17:50:10 up 228 days, 15:00, 0.00 smp
: 483 total, 1 running, 0 sleeping,
s): 50.0 us, 0.0 sy, 0.0 id, 0.0 st
mem : 13142096+total, 12522182+free, 5102276 used, 1096864 buff/cache
wap: 16383996 total, 16383996 free,
```



File Render Window Help Default Scene 4 Cycles Render v2.79 | Verts:1,494 | Faces:1,488 | Tris:2,976 | Objects:0/97 | Lamps:0/19 | Mem:255.84M | anfora4



View Search All Scenes

- 0_nasaccio_000
- 0_pere_fill
- 0_ragnatela
- 0_ragnatela.001
- 0_scheggia_key
- 0_scheggia_key.001
- 0_scheggia_rim
- 0_volume_emit
- 0_volume_empty
- Cube.001
- anfora1
- anfora4
- anfora5
- anfora5
- appendino_singolo1
- appendino_singolo2
- brace
- camera_empty
- Animation

Scene

Render

Render Animation Audio

Display: Image Editor

Feature Set: Supported

Device: CPU

Open Shading Language

Dimensions

Render Presets

Resolution: 1920 px x 1080 px

Frame Range: Start Fram: 51, End Fram: 221

Aspect Ratio: 1.000

Frame Rate: 24 fps

Time Remapping: 100%

Metadata

Output

/home/sparazza/R...t 02_05_v2.mp4

Overwrite, Placeholders, Cache Result, File Extensions

Timeline: -50 to 280. Frame 201. AV-sync. Markers: F 13, F 71, inizio.

pid	ppid	user	time	state	cpu	mem	rss	vsz	priority	nice	start	end	command		
0.3	0.0	0:00.22	kworker/0:0	21543	ddeluc	20	0	166636	2604	1576	R	0.3	0.0	0:01.03	top
0.3	0.0	0:00.33	kworker/12:5	1	root	20	0	166944	129496	2412	S	0.0	0.1	28:52.26	systemd
0.3	0.0	0:01.04	top	2	root	20	0	0	0	0	S	0.0	0.0	0:02.90	kthreadd
0.0	0.1	35:54.95	systemd	3	root	20	0	0	0	0	S	0.0	0.0	11:42.78	ksftirqd/0
0.0	0.0	0:03.29	kthreadd	5	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kworker/0:0H

() node397



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[ddeluc... 172455 gll_usr_p s_KI
177889 gll_usr_p s_KI
job_hi_v01: bash

Grazie per l'attenzione



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