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Field Reports

Title

Field Report: Palazzo Vecchio and Santa Maria Novella June 12- 30th 2025 Florence, Italy

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Authors

Mcavoy, Scott Patrick

Bent, George

Vigotti, Lorenzo

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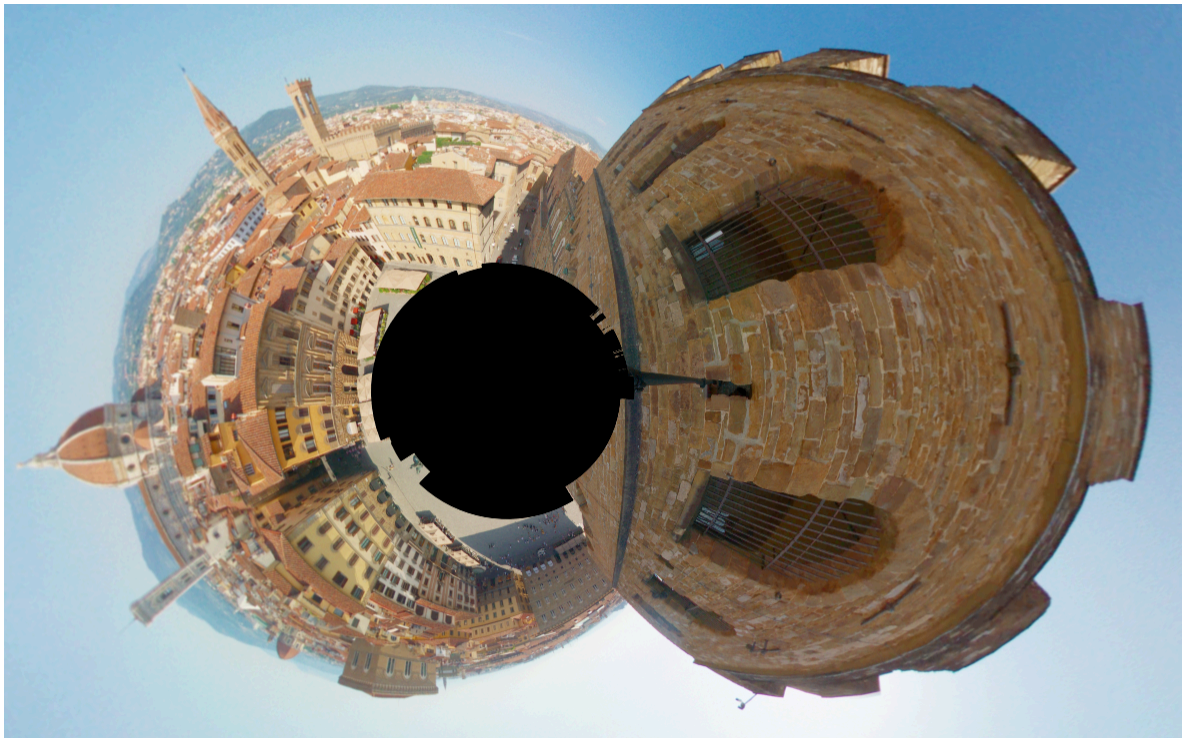
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Field Report:

Palazzo Vecchio and Santa Maria Novella

June 12- 30th 2025

Florence, Italy



360 image from the Palazzo Vecchio battlements (get better picture)

Field report prepared July 2nd 2025

Scott McAvoy*, smcavoy@ucsd.edu

Prof. George Bent

Dr. Lorenzo Vigotti

CHEI projects are directed by Professor Falko Kuester & Dr. Dominique Rissolo
Cultural Heritage Engineering Initiative (CHEI) and ALERTCalifornia
at the University of California San Diego

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Expedition Overview:

This expedition is the second part of a 3D scanning campaign started by George Bent in April of 2025, intending to create high resolution colorized models of the medieval sections of Palazzo Vecchio, and referencing previous survey work done in 2019 (Verdiani 2022). In this project, a multidisciplinary team of architects, art historians, and data scientists, came together to explore this building's complex history of construction and renovation. To date, this team has collected 1165 scans and successfully piloted a system enabling the capture of laser scans at the end of a telescopic pole.

Along with this work in Palazzo Vecchio, the team took the opportunity to build upon the ARtifact project begun by CHEI a decade ago (Vanoni 2012) to update with newer assets and envision additional interactions for users (Mangano 2025).

Special thanks to Fabio Sforzi, Paolo Ferrara, and the Commune di Firenze, Prof. Giorgio Verdiani, Prof. Filiberto Chiabrando, Carol Tohsaku, Prof. Alessandro Conti, Lidia Fiorini, David Pfaff, and the digital humanities team at *Florence As It Was*. This project was enabled by the expertise and generosity of Leica Geosystems and its supportive staff members. Thanks to Amanda Troth, Luca Nazzari, Luana Febi, Fabio Pirozzoli, and Cristiano Pecchioli.

A full listing of datasets and their contributors are provided in appendix 1. Please contact Scott McAvoy (smcavoy@ucsd.edu) for any questions regarding access to or re-use of this data.

Expedition Team

Scott McAvoy*(UC San Diego), smcavoy@ucsd.edu
Dr. George R. Bent (Washington and Lee University)
Dr. Lorenzo Vigotti (University of Bologna)
Daniel Mangano (Politecnico di Torino)
Stefano Corazzini (ISI Florence)
Dr. Valentina Bonora (University of Florence)

Data Acquisition:

Our imaging tools and methodologies are outlined below:

Terrestrial LiDAR - Leica RTC 360



Our best LiDAR scanner, capable of 3 mm density @10m and high dynamic range (HDR) images. It's very fast, 2-3 minutes per scan on highest quality.

Terrestrial LiDAR (TLS) - Leica BLK 360 G2



Highly compact tripod mounted laser scanning system, enabling rapid capture of architectural spaces and features.

HDR 360 images at 13 mp,

point density (resolution) of 6mm at 10 meters

accuracy of 4mm at 10 meters

Ideal for confined spaces, overheats easily in direct sunlight.

Data Quality and Availability

The data provided by this project is not certified by a licensed surveyor. Measurements provided are subject to error. If an application requires a particularly high level of accuracy or precision (for example, a hydrological analysis) please contact the authors of this report.

Activities

Thursday June 12

12:30 Meeting with Prof. Valentina Bonora and Stefano Corazzini - Scott McAvoy was put in touch with Valentina Bonora through colleagues at PoliTo. Bonora and her team at the GECo lab at UniFi had worked with Corazzini investigating phases of building within the Hall of the 500 (Corazzini et. al. 2024), and they had performed a laser scanning and ground penetrating radar campaign (Pieri 2021).

We found a lot of common ground. Bonora and her team had also scanned all of Palazzo Pitti, following established standards to make resources understandable and accessible (Meuci et. al. 2025). We agreed that this thorough and detailed scanning campaign and its resultant derivative products should be held as an example as we move towards proposals for survey archives in Florence, and we intend to continue to collaborate in the near future.

We tested the ARTifact2 app's old thermal target in the Hall of the 500, and found that it worked quite well.



19:00 Aperitivo with Giorgio Verdiani - We had been told of a tunnel in Palazzo Vecchio leading under the Piazza della Signoria into the Uffizi gallery. Verdiani gave some detail about a supposed tunnel in Palazzo Vecchio matching this description, but noted that it went the other way, feeding water to the fountains (this ended up being the case). The tunnel in his model is water access for the fountain in the interior courtyard. There is an offshoot still unscanned; perhaps we will investigate it another field season. Verdiani was off to Turkiye in the following days, and we wouldn't collaborate directly on this trip.

We were joined by some researchers at UniFi who had worked with George Bent and Verdiani on other projects:

Gaia Ravalli - researcher at UniFi, our guide to all things Santa Maria Novella (SMN)
Giacomo - architect and museum curator, who'd identified the Giotto frescoes in Padova
Yliena - 3D artist/architect, working on tramezzo model for SMN and Bologna cathedral
Cristiana - Masters student in art history working on tramezzo background for SMN

Friday June 13

Writing all day, meetings with Leica, working to get a rental RTC 360. We would like to enable Leica to use imagery from our work for promotion, but the Italian laws regarding the portrayal of cultural heritage in commercial products are opaque. Requirements are outlined, procedures are invisible. We will need to work towards a functional understanding if we want to encourage these kinds of critical partnerships.

June 14th - 16th - spent writing indoors, and visiting potential sites.

Tuesday June 17th

15:00 Meeting with Stefano Corazzini, Alessandro Conti, and Lidia Fiorini, University of Florence -

Stefano set up this meeting with other members of the GECO at UniFi, it was a wonderful surprise to find that our interests aligned so beautifully. Lidia is working on a dissertation regarding the archiving and dissemination of professional survey data.

Alessandro is directly involved in the EU's Artemis project, focusing on the creation and support of digital twins for cultural heritage. They will be meeting with our partners in Brindisi later that week.

<https://www.artemis-twin.eu/>

We discussed the corpus of data their lab had collected over the years, and the need to preserve this data for posterity, and enable re-use. I hope that we will partner on several proposals in the near future.

Lidia also referred me to two other important projects:

- **Eureka**, headed by our good friend Marinos Ioaniddes at CUT <https://eureka3d.eu/>
- **ECCCH**, a data space for interdisciplinary collaboration over cultural heritage data. <https://www.echoes-eccch.eu/>
- **Heritalise**, cutting-edge digitization techniques that capture both visible and hidden features of CH assets <https://heritalise-eccch.eu/>

17:00 Meeting with Prof. Maurizio Seracini at Editech - I had initially planned to perform a higher resolution photogrammetric scan of the Tornabuoni chapel in Santa Maria Novella, using the extendable pole we'd purchased for this purpose. Maurizio helped me to understand the situation regarding permissions and planning. We had been referred to seek permission through

the prefettura, and I'd arrived ready to present a safety plan. This would, unbeknownst to me, take up to 6 weeks to process, long beyond my intended stay. Maurizio suggested that we remove the more troubling aspects of the proposal, requiring manual operation and balancing of the 10 meter pole, by fastening it to a fixed object. We decided to employ a stabilized "truss lift" (image below) for this purpose.



Wednesday June 18th - Writing, finishing papers for CIPA conference. Tested AR overlays of San Romolo using images captured in March (McAvoy 2025a), based on an investigation done by Prof. Maurizio Seracini years prior.



Thursday June 19th - Finalized details for rental of additional RTC 360 in Florence, thanks to help from Leica's very kind representatives in Italy. Given the holiday on Tuesday the 24th, we would reduce our loan to 3 days. A timely donation to the OpenHeritage3D fund enabled this loan.

Visited Orsanmichele, thinking about concepts to recontextualize the statues in the museum in their original spots in exterior alcoves. Tested

Friday June 20th - Another writing intensive day. Visited Santo Spirito, retracing some of George Bent's steps, getting a sense of the space and the project. Daniel Managano arrived from Turin.

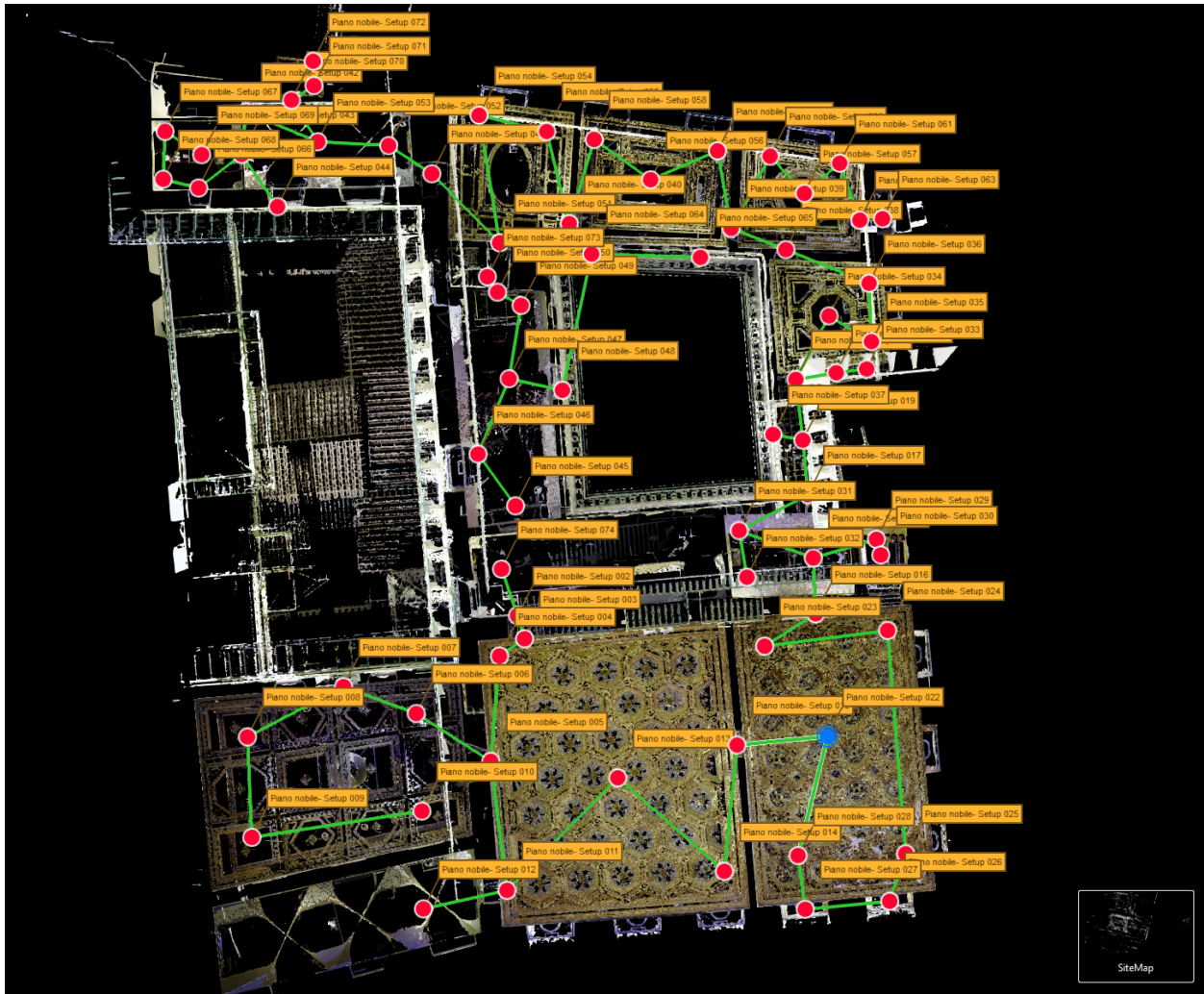
Saturday June 21st - Daniel and Scott visited Santa Maria Novella, testing functionality of thermographic and geometric overlays created in February (McAvoy et. al. 2025b). It was

extremely hot and crowded. The app worked well.



Strozzi Chapel, which had been the subject of a previous analysis, was completely full of scaffolding, undergoing stabilization and conservation efforts (McAvoy et. al. 2024).

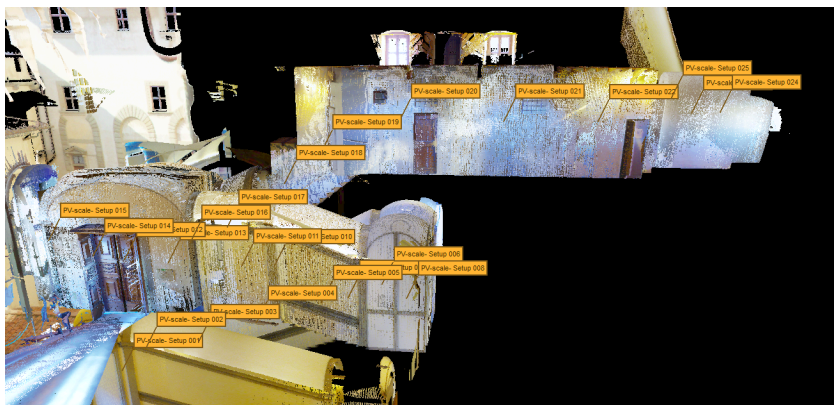
Sunday June 22nd - Making progress on papers, preparing to build concepts for ARtifact2 app. Met George Bent in the evening to prepare, and to discuss project visions for Florence as it Was, OpenHeritage3D, and Daniel's own research. George had already begun scanning that day in Palazzo Vecchio, completing 77 scans of the Piano Nobile.



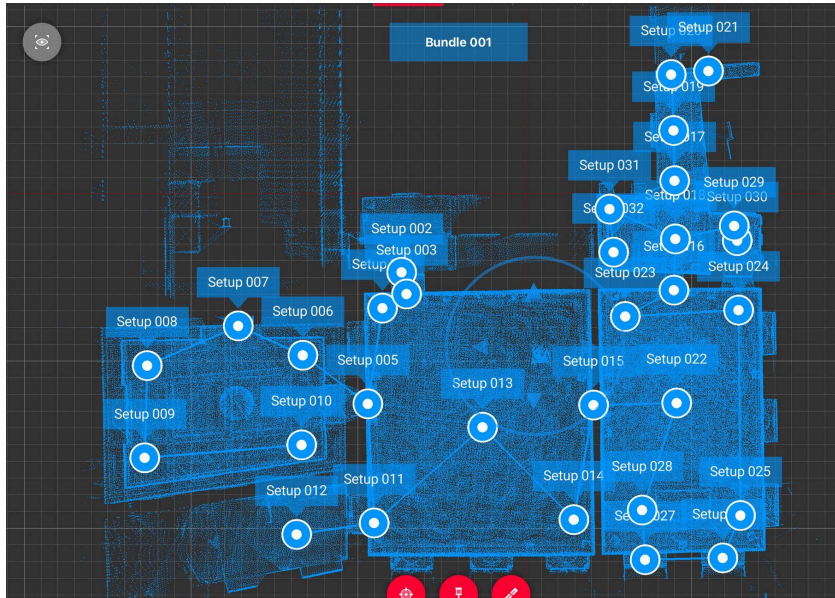
Monday June 23rd - Scanning in Palazzo Vecchio begins. In the morning we tested plane tracking AR with a model of a Vitruvian theater, intending to overlay it within the Palazzo Vecchio, where a Roman theater had once stood.

Referring to the the map in Appendix 1:

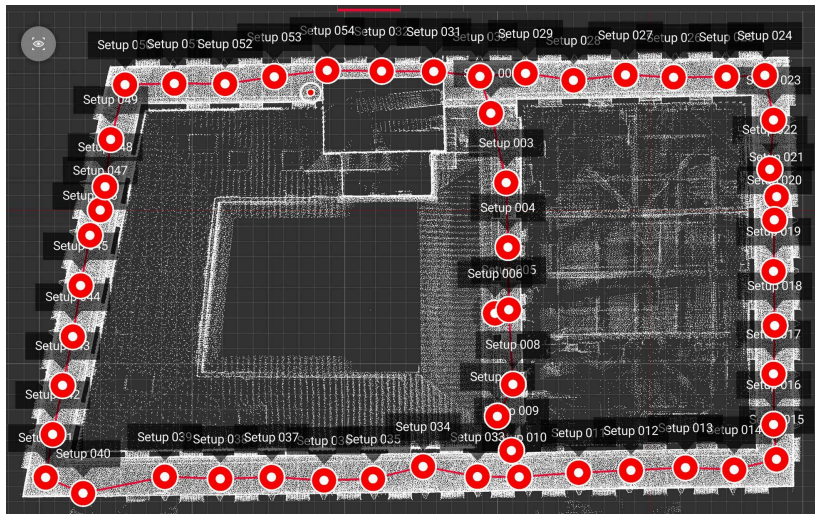
Scott performed (24 scans) with the BLK 360, starting from the stairwell next to the Hall of the Lilies (room 31, 2nd floor) up to the very beginning of the tower.



George Bent took 31 scans on Medium Density resolution with his RTC 360 in the Hall of Lilies and surrounding rooms.

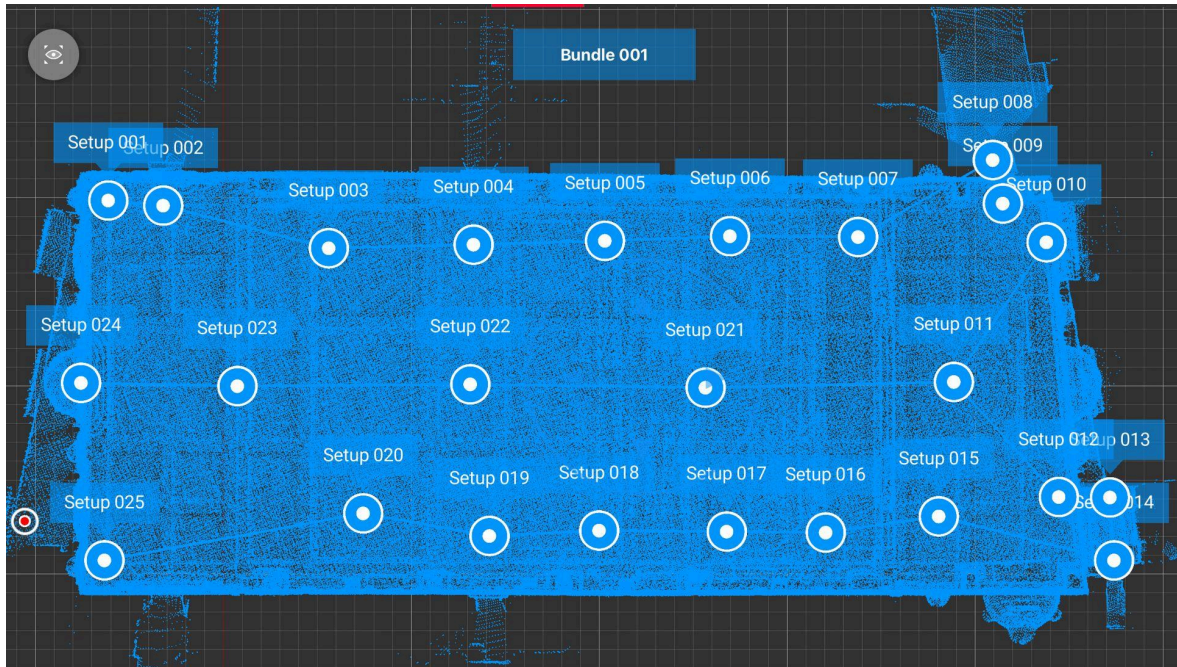


Bent performed another 52 scans at medium resolution of the terrace, while Scott and Daniel enjoyed the cool breeze and tried to stop visitors from entering scans.



Tuesday June 24th - Holiday festival of San Giovanni. We had hoped to scan the tower while the museum was closed, but we couldn't get the key.

George scanned in the Hall of the 500 with his RTC 360, capturing 25 scans on medium resolution.

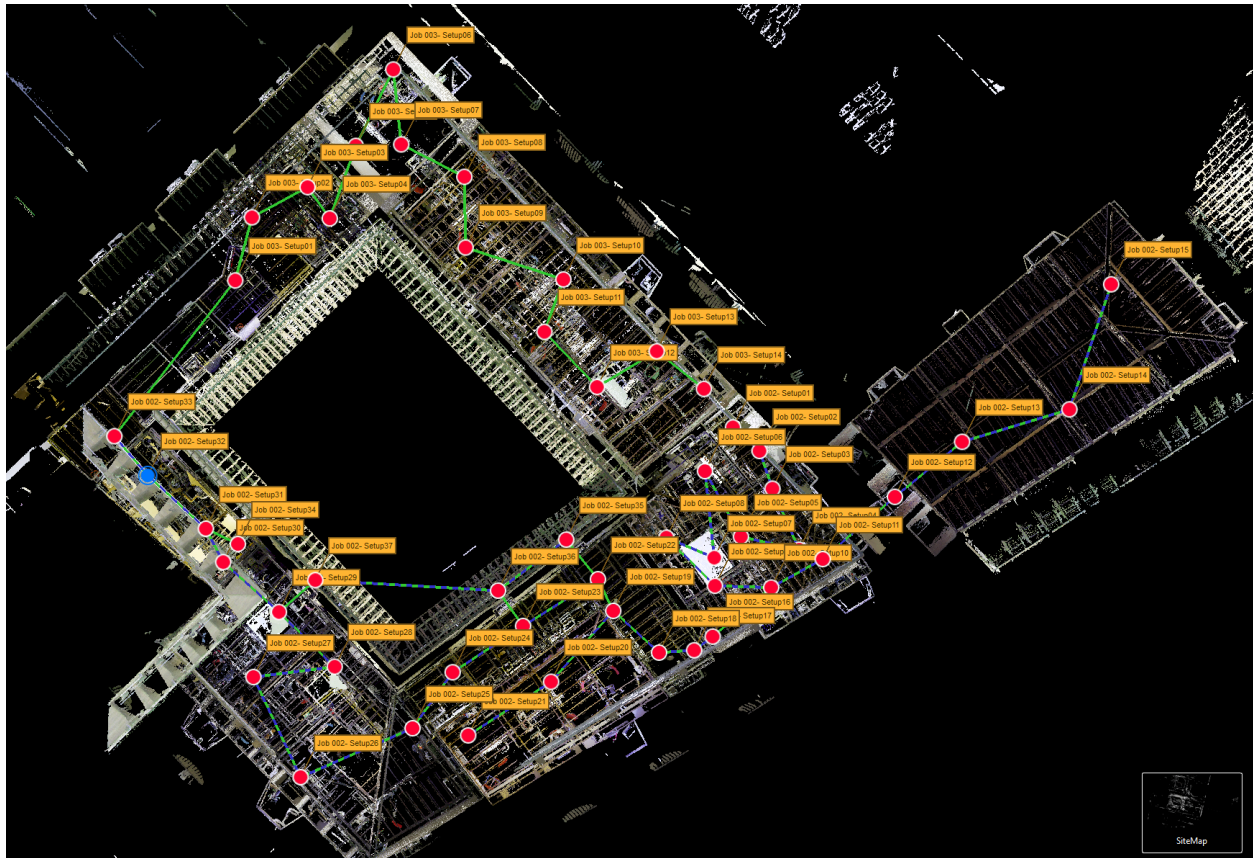


Scott performed 11 scans with BLK 360 on the balcony, connecting the quartiere degli elementi to the old palace and the chapel of Eleonora of Toledo.

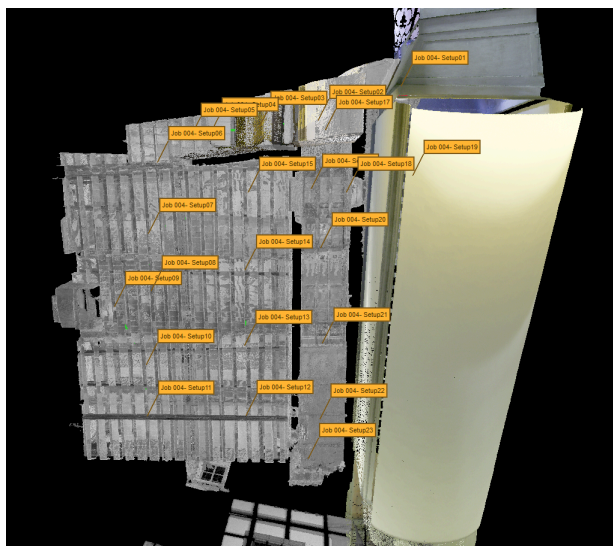


Wednesday June 25th - Scott picked up the RTC360 in the morning. He began scanning in the architect's office and the external terrace with painted grotesques, connecting back to the tower entrance scans done. Splitting up, Scott took the eastern end of architect's office 1st level, 37 scans.

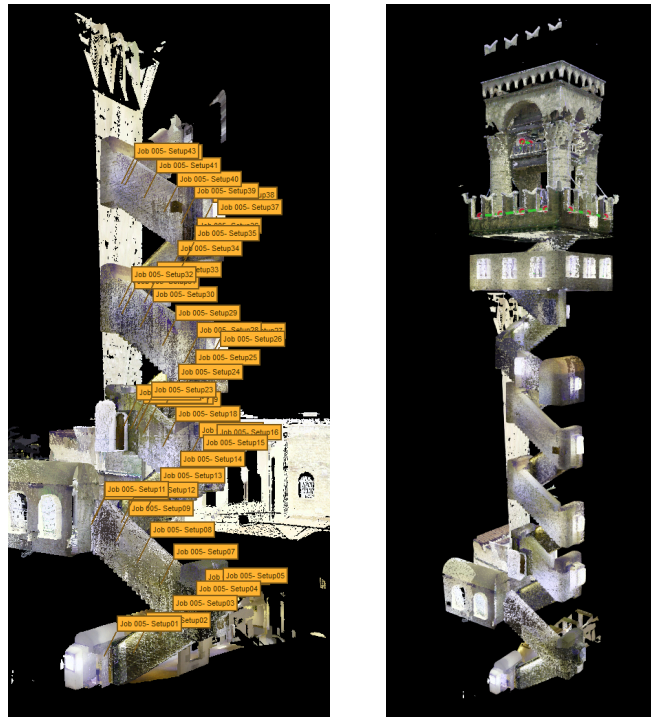
George took the western side, taking 56 scans at medium resolution covering the architect's office (aka la fabbrica).



Thursday June 26th - In the morning George was able get into the press room and courtyard (21 scans). Scott begins scanning in an interstitial 1st floor space directly underneath the Garderobe (map #33). These captures have no color, as light was not available.



We then began on the stairs of the Arnolfian tower, Scott starting from the bottom, George and Lorenzo starting from the top. Top team was not able to get into the very highest platform on top of the tower this day, Scott was not able to enter the small cell inside the tower.



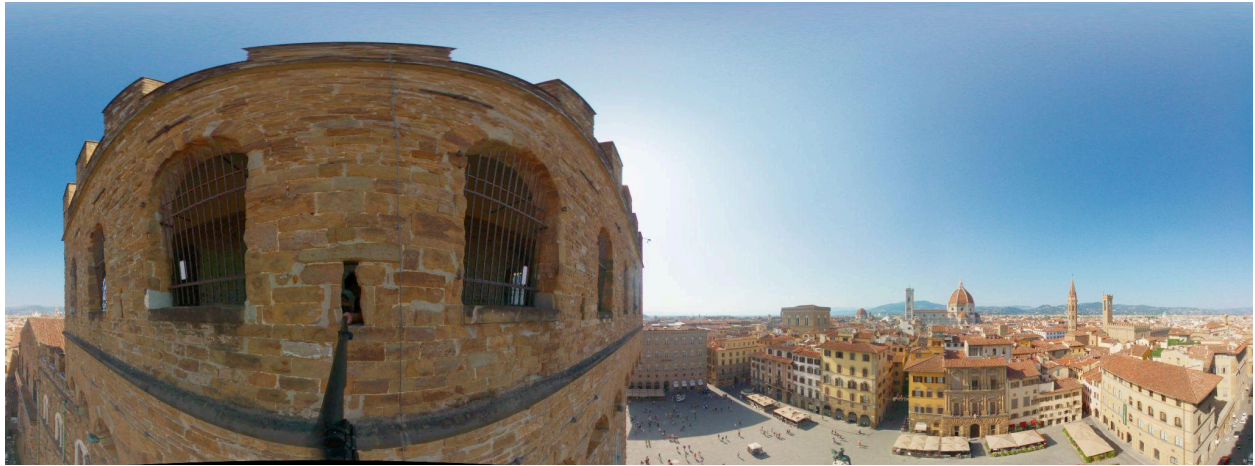
Scott and Lorenzo began scanning with the extended BLK 360 on the west side of the facade, facing the Piazza della Signoria, but the heat/direct sunlight caused the BLK 360 to misbehave. About ½ of the attempted scans failed. We would have to wait for the next day.

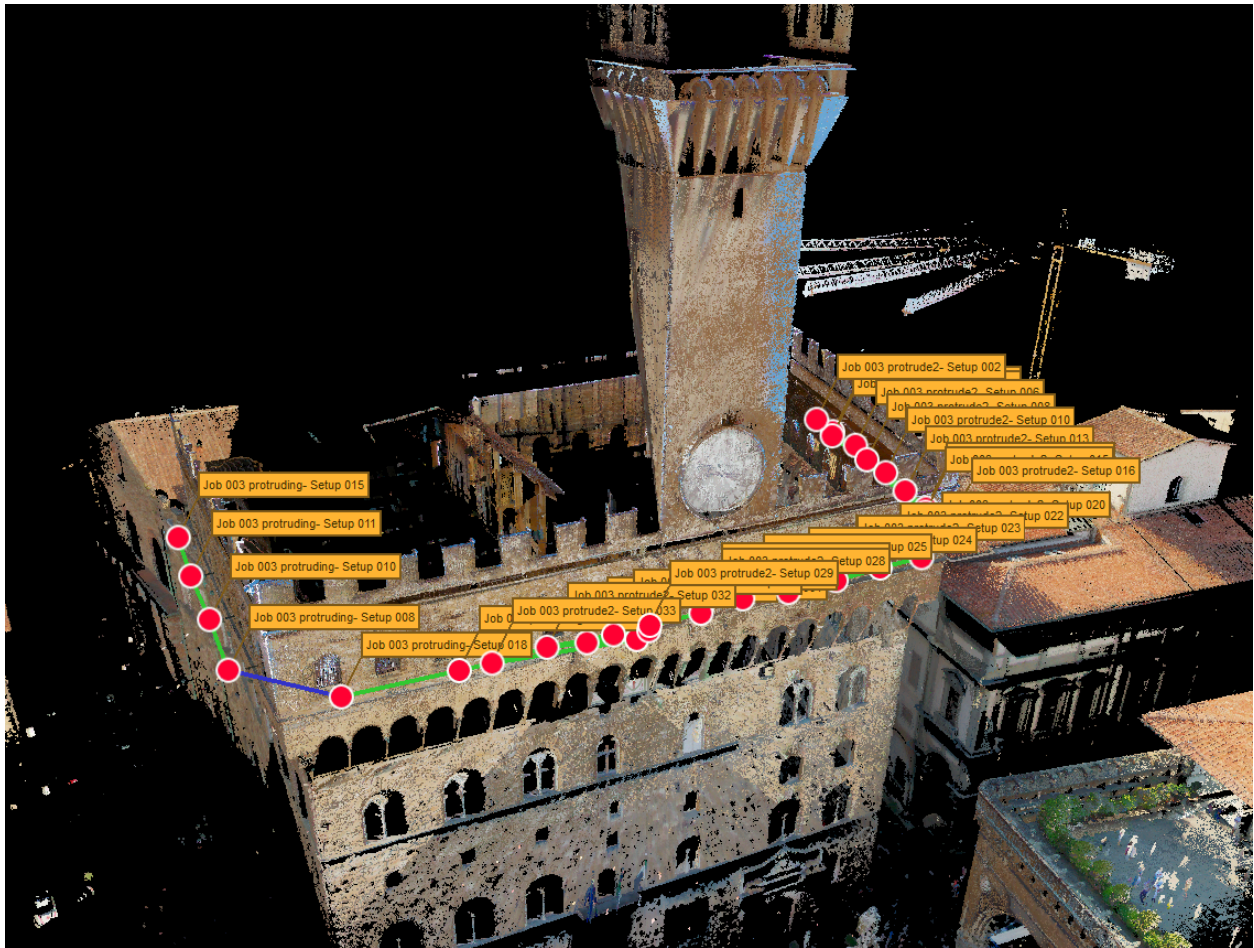


George goes late scanning another 28 positions in the architects office (la fabbrica), 2nd level.

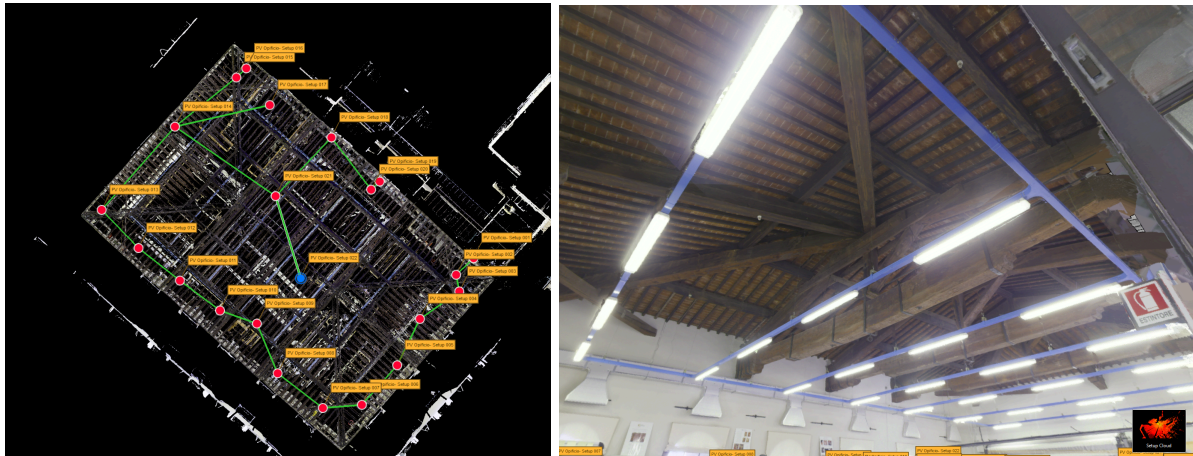
Friday June 27th-

Scott started on battlements with BLK 360 while we were still in the morning shade, it worked very well. We had some initial concerns about how the BLK 360 would work upside down, it seems the hardware and software could both account for the inversion. Still, color alignment seemed poor, we should rely on intensity view for detail.

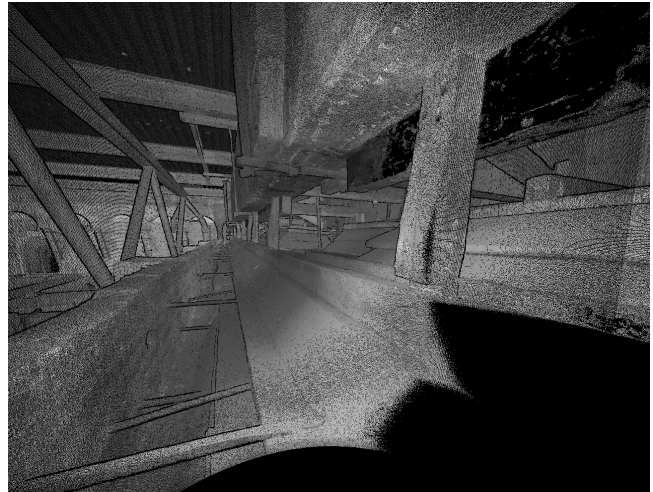
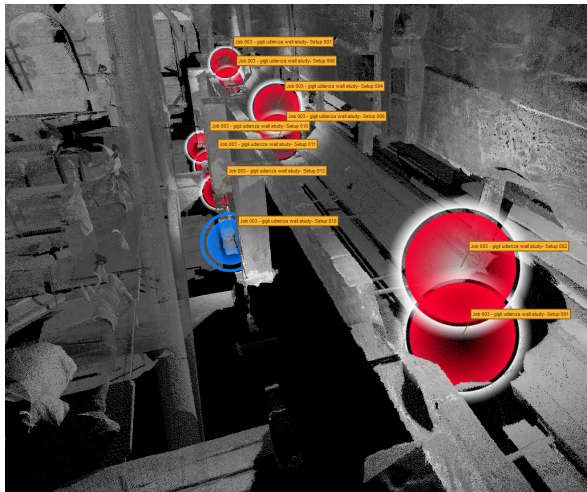
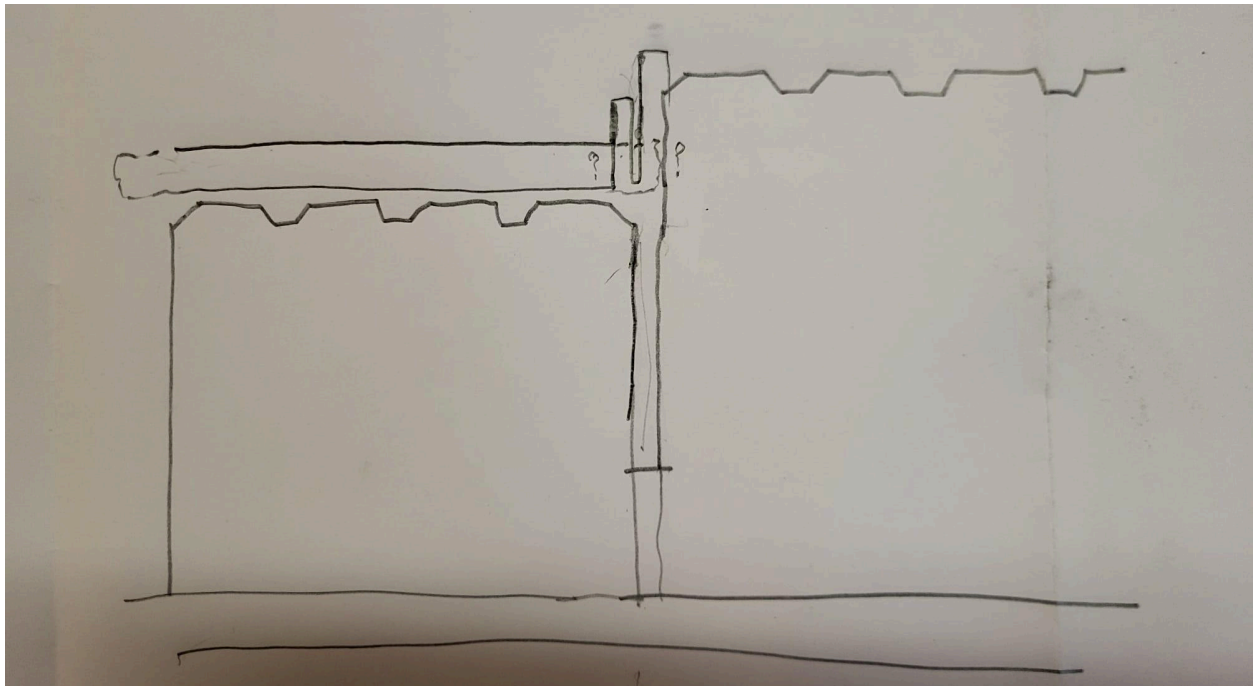




George took 22 scans in the Opificio on the terrace level, where conservationists were working on large textiles, and the upper battlements/roof of the terrace.



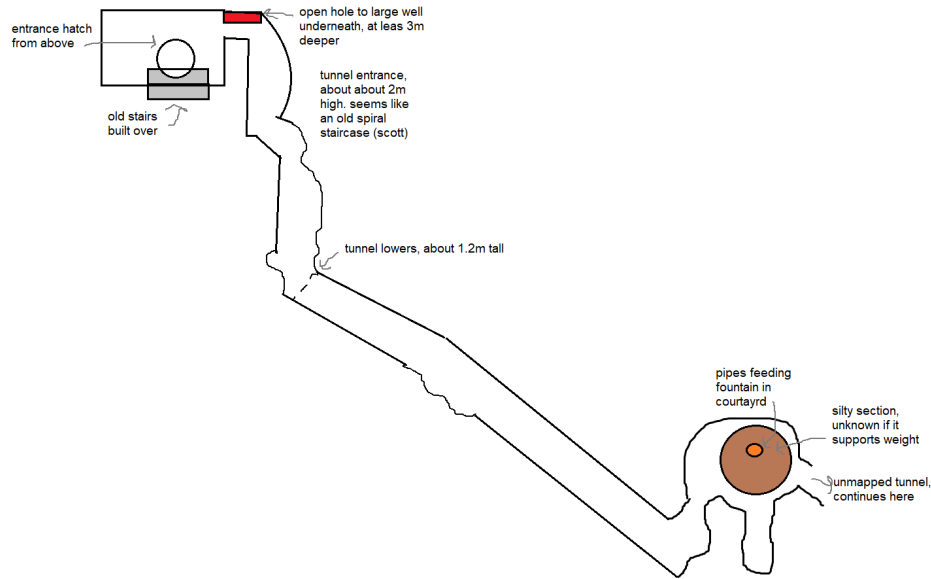
George and Scott worked together to study the attic space above Hall of the Lilies and Udienza. Fabio mentioned that they were unclear about the shape of the wall on either side, which floats above a large open room below.



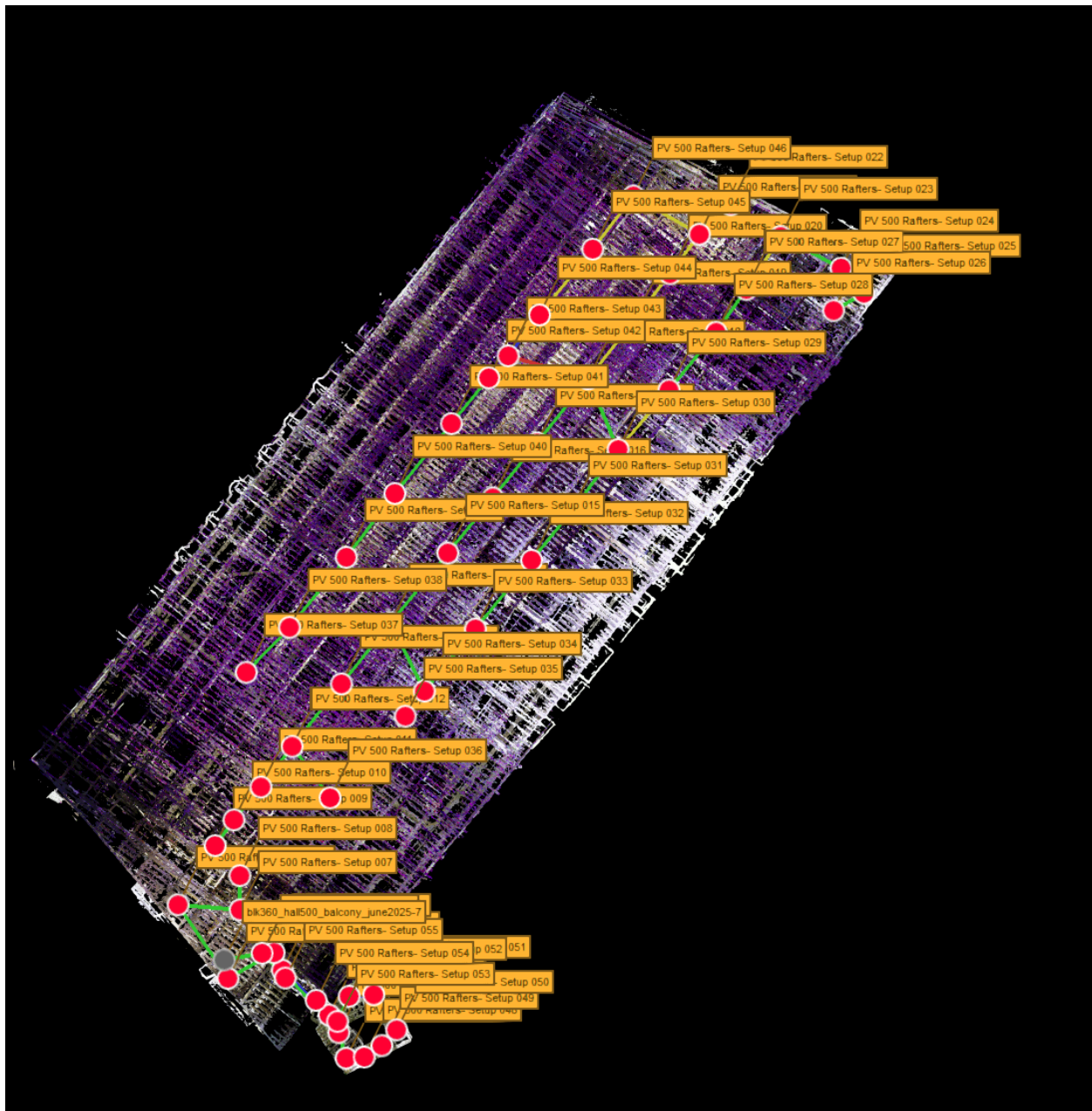
George and Scott split up for the clocktower, which drives a rod all the way through the attached Arnolfian tower, to the clock on its facade Scott from the top (9 scans), George from the bottom (12 scans).

This aerial photograph shows a large industrial facility, possibly a power plant or refinery, with a complex network of structures and piping. A series of red dots, each labeled with a 'PV Secret Passage' setup number, are connected by green lines, forming a path across the facility. The labels range from 'Setup 001' to 'Setup 035'. The path starts at the bottom left and winds through various parts of the plant, including a large circular structure on the left and a large rectangular building in the center. The background is dark, suggesting a night or low-light environment.

Monday June 30th - Starting with the tunnel in the morning, it was



George does 56 scans of the rafters above hall of the 500, connecting from the balcony on the southern side of the Hall of the 500.

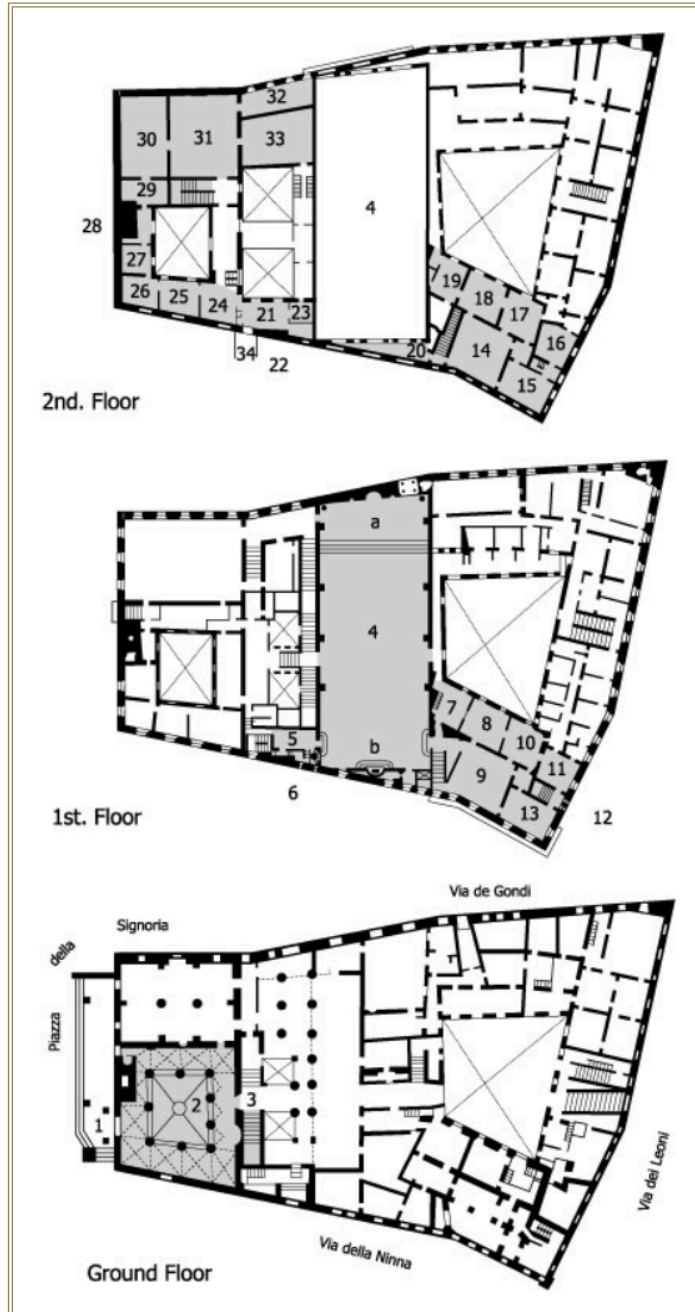


George also hits the Gonfaloniere office (6 scans), Cosimo's studio (10 scans), and stairs of the secret passages that connect the Piano Nobile to the via della Ninna.



Maps of Palazzo Vecchio

Courtesy of the Commune di Firenze ([source](#))



Palazzo Vecchio is the City Hall of Florence, but is also a museum. In gray the part you can visit .

Ground Floor

1. Main Entrance
2. 1. First Courtyard
3. Stairs to The Monumental Apartments

First Floor

- Salone dei Cinquecento
4. a: Udienza b: "The genius ov Victory " (Michelangelo)
 5. Studiolo Francesco I.
 6. Tesoretto of Leo X.
 7. Room of Cosimos d. A.
 8. Room of Lorenzos the Magnificent
 9. Room of Leo X.
 10. Room of Cosimo I.
 11. Room of Giovanni dalle Bande Nere
 12. Chapel
 13. Hall Clemens« VII.

Second Floor - Quartiere degli Elementi

14. Room of the Elements
15. Loggia of Saturn
16. Room of Hercules
17. Room of Jupiter
18. Room of Cybele
19. Room of Ceres
20. Salone dei Cinquecento Apartments of Eleonora da Toledo
21. Green Room
22. Studiolo of Francis I.
23. Chapel
24. Room of the Sabines
25. Room o fEsther, Dining Room
26. Room of Penelope
27. Room of Gualdrada
28. Corridor
29. Chapel
30. Hall of the Audience
31. Hall of Lilies
32. Old Chancellery
33. Garderobe
34. Exit to Uffizi (Begin of Vasari corridor to Palazzo Pitti)



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Appendix - June 2025 - Data Inventory

#	Description	Collector	Sensor	CHEI Data Location
1	Balcony above Hall of the 500, connecting the apartments of Eleanora and stairwell next to Elements (21 scans/ 11 successful)	Scott McAvoy	BLK 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\blk_360_pv_sala_dei_500_balcone"
2	Extension pole wall study in attic above Hall of Lilies and Udienza (19 scans/ 10 successful)	Scott McAvoy	BLK 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\blk_360_pole_6-27-25\Job 003 - gigli udienza wall study"
3	Extension pole model of battlements (54 scans/ 30 successful)	Scott McAvoy	BLK 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\blk_360_pole_6-27-25"
4	Stairs up to the tower (25 scans/ 24 successful)	Scott McAvoy	BLK 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\blk_360_scala_a_torre_1"
5	Architects office, 1 of 2, 2nd part by George. 51 scans including 3 out the window, pointing into the first courtyard	Scott McAvoy	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\rtc_360_architects_office_1"
6	Clock tower, starting from top. Part 1 of 2, 9 scans, 2nd part by George.	Scott McAvoy	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\rtc_360_clocktower_smcavoy"
7	Tower interior, part 1 of 4, other parts by George. 43 scans starting from bottom (2nd floor) going up.	Scott McAvoy	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\rtc_360_tower_and_others\Torre1_Job 005-zu83"
8	Empty space on 1st floor beneath the Garderobe (#33 on map). 23 scans, these have no color, intensity only	Scott McAvoy	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\rtc_360_tower_and_others\intersitialspace_diamond_windows_Job 004-IQJg"
9	PV Tower 2-WbOg 38 Scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Tower 2-WbOg"

	Contains upper tower only, but not belltower			
10	PV Tower Savonarola-ISBG 19 scans this contains the arnolfian tower, not white the clock tower	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Tower Savonarola-ISBG"
11	PV Marzocco-wjIn 11 Scans, bell section of arnolfian tower	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Marzocco-wjIn"
12	PV Merli-rhB1 47 scans, terrace including lower section of clocktower, part 2 of 2	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Merli-rhB1"
13	PV Opificio-biSY 22 scans, of tapestry workshop on terrace level, by tower entrances	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Opificio-biSY"
14	PV Pianonobile-qzU8 77 scans, including 4 detached of the rafters above Hall of Lilies, also included in the 2nd level of architects office	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Pianonobile-qzU8"
15	PV 500 Rafters-TJti 56 scans, connecting entrance on the upper balcony of Hall of the 500	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV 500 Rafters-TJti"
16	PV 500-M6CK 25 scans, lower hall of the 500	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV 500-M6CK"
17	PV Architects-8X51 28 scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Architects-8X51"
18	PV Architects 2-Uj69 28 scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Architects 2-Uj69"
19	PV Gonfolaniere-1u8e 6 scans, should connect to April models	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV"

				Gonfolaniere-1u8e"
20	PV room redo-Qvh2 2 Scans, unclear which room	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV room redo-Qvh2"
21	PV Secret Passage-eyi9 39 scans, starting from bottom	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Secret Passage-eyi9"
22	PV Upper Secret Passage-xqOu 7 scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Upper Secret Passage-xqOu"
23	PV Stampe-8Xbd 16 scans, area missed in April 2024 run	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Stampe-8Xbd"
24	PV Studio Cosimo-O7vv 10 scans, connecting to "Secret passage" and PV 500	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Studio Cosimo-O7vv"
25	PV Tunnel-nLqL 7 scans, under 1st courtyard (Michelozzo), connecting to fountain underneath	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\PV Tunnel-nLqL"
26	Terrace-ZyrS 54 scans,	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\June_2025\Terrace-ZyrS"

Appendix - April 2025 - Data Inventory

These data were collected in George's previous field season in April of 2025, intending to connect to the work we'd completed in June.

27	PV and SPS-Hik8 36 scans connecting southern exterior with Uffizi courtyard	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\April_2025\PV and SPS-Hik8"
28	PV backrooms 1-riwF 59 scans, ground floor admin/working spaces	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\April_2025\PV backrooms 1-riwF"
29	PV Dogana-wbOB 32 scans of 2nd courtyard aka Dogana	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\April_2025\PV Dogana-wbOB"
30	PV Foundations 2-avxM 37 scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\April_2025\PV Foundations 2-avxM"
31	PV Foundations-CnBC 48 scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\April_2025\PV Foundations-CnBC"
31	PV Mezzanine-TkO2 38 scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\April_2025\PV Mezzanine-TkO2"
	PV piazza-7ODj 38 scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\April_2025\PV piazza-7ODj"
	PV Sala dei 200-vFoU 30 scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\April_2025\PV Sala dei 200-vFoU"
	PV Stairs 1-SPTi	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_2025\master\fiaw_deliveries\April_2025\PV Stairs 1-SPTi"

	49 scans			2025\master\fiaw_deliveries\April_2025\PV Stairs 1-SPTi"
	PV Stairs II-TU6i 22 scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_ 2025\master\fiaw_deliveries\April_2025\PV Stairs II-TU6i"
	PV Tech rooms-UEA8 69 scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_ 2025\master\fiaw_deliveries\April_2025\PV Tech rooms-UEA8"
	PV Terrace-Wp9F 7 scans	George Bent	RTC 360	"Y:\italy\italy_florence\palazzo_vecchio\palazzo_vecchio_TLS_ 2025\master\fiaw_deliveries\April_2025\PV Terrace-Wp9F"