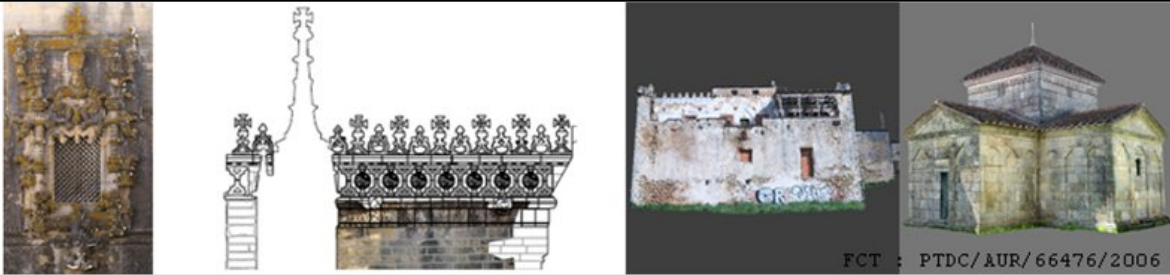


ArchC 3D



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“ArchC_3D research case studies”

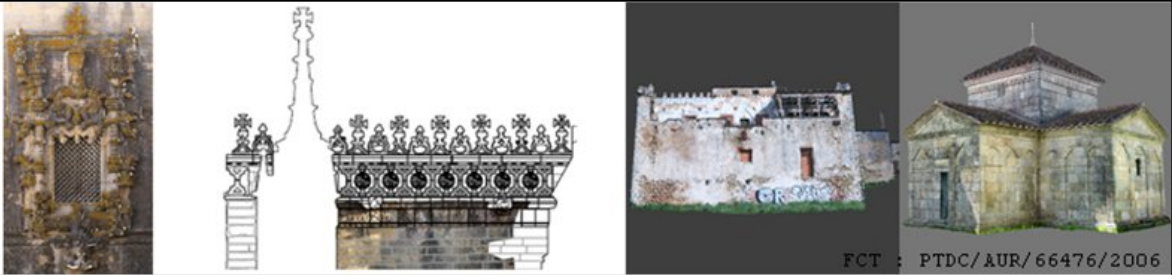
(FCT:PTDC/AUR/66476/2006)

“Casos de estudo do projecto ArchC_3D”

(FCT:PTDC/AUR/66476/2006)

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ArcHC 3D

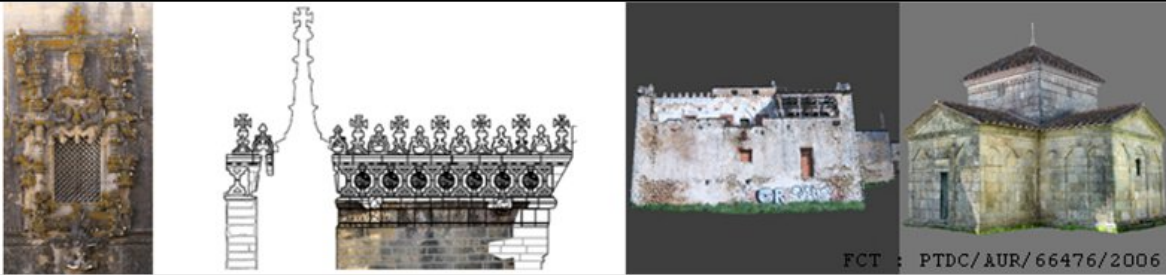


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Casa de Valflores - Loures

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ArchC 3D

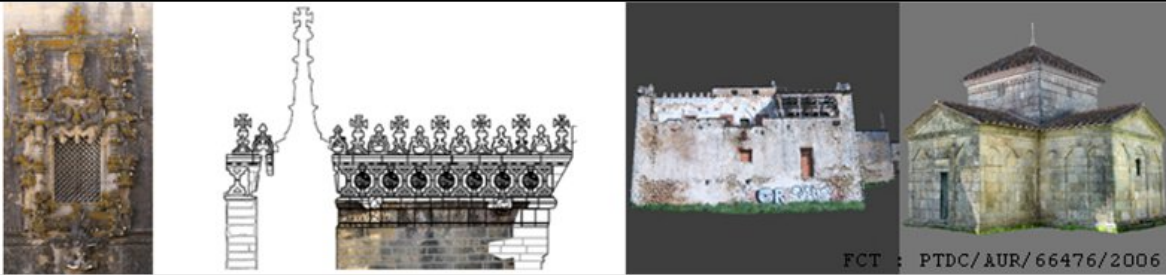


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ArchC 3D

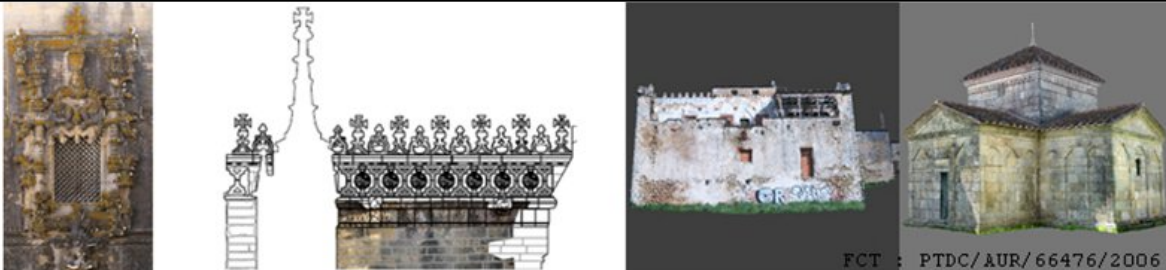


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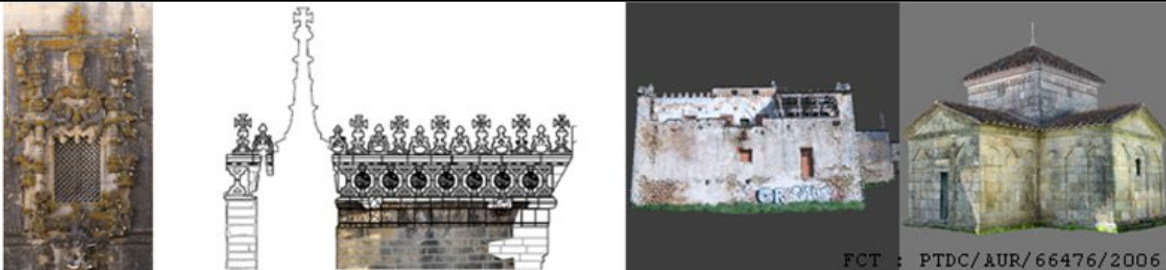


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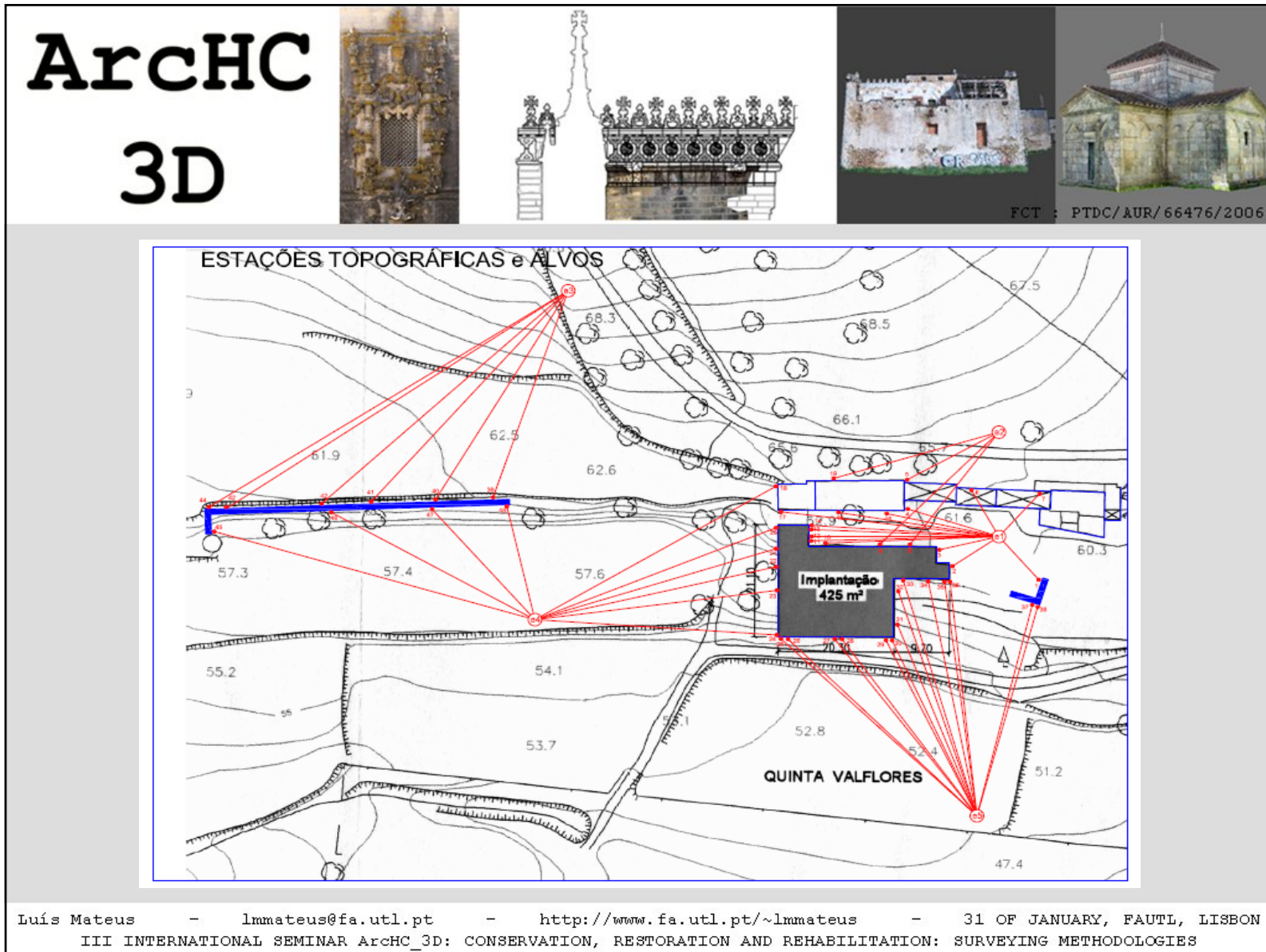
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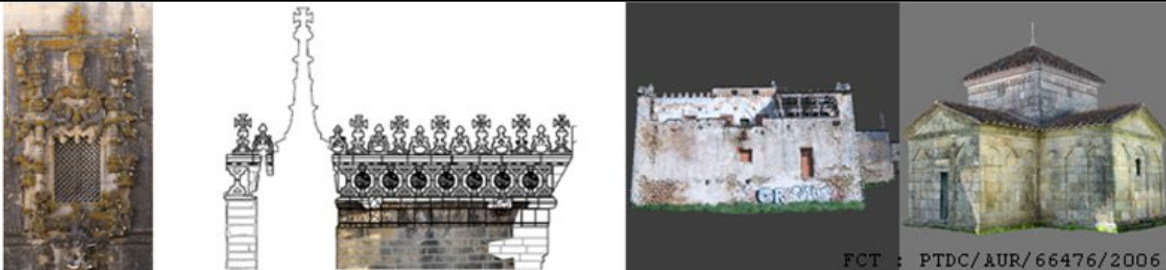
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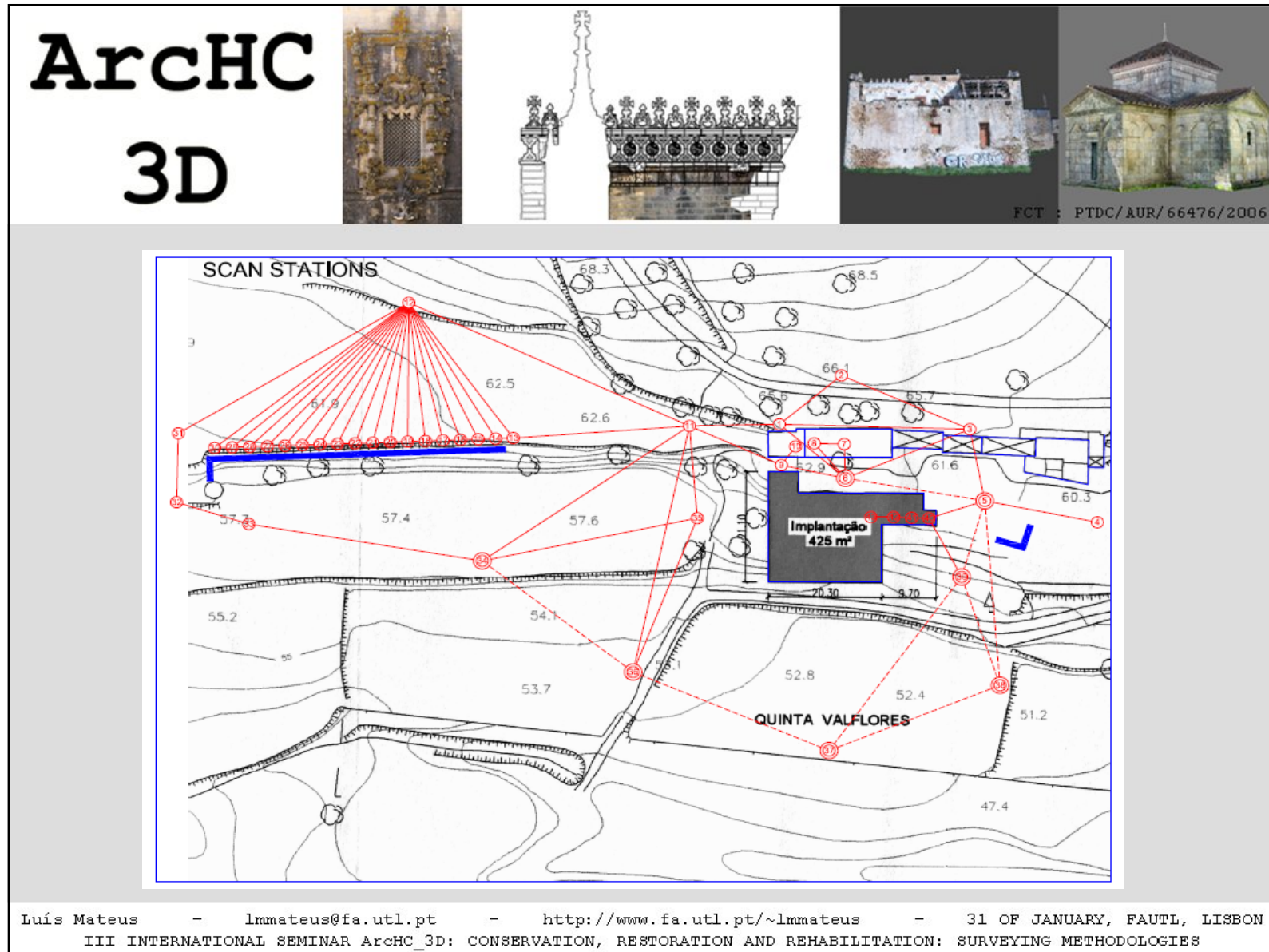
ArchC 3D



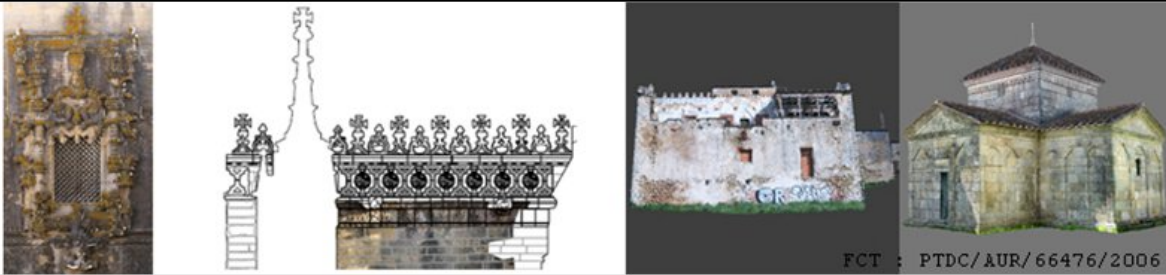
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ArchC 3D

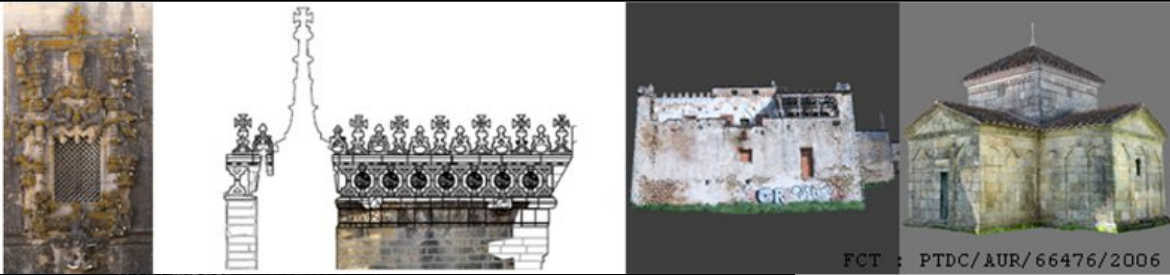


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ArchC 3D

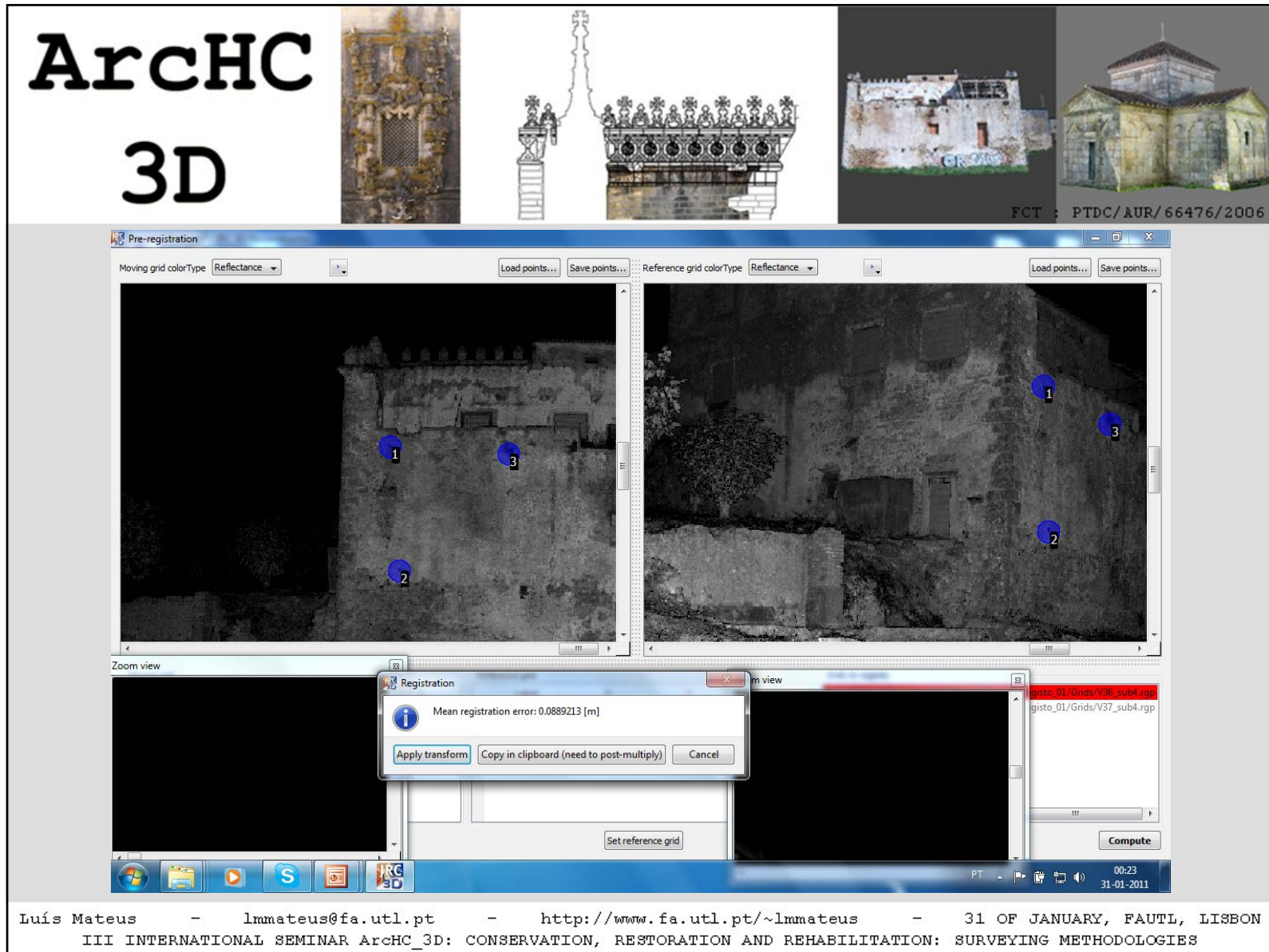


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ArcHC 3D

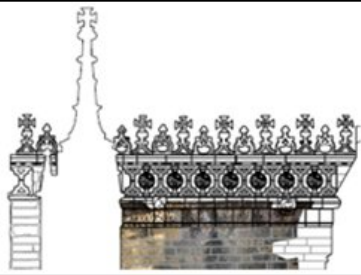


The image displays the ArchC 3D software interface for point cloud registration. At the top, the title "ArchC 3D" is shown. Below it, there are four small images: a detailed architectural drawing of a facade, a 3D model of a building, and two photographs of a building facade. The main window is titled "Pre-registration" and contains two side-by-side viewports. Each viewport shows a grayscale point cloud of a building facade with three blue circular control points labeled 1, 2, and 3. Above the viewports are controls for "Moving grid colorType" and "Reference grid colorType", both set to "Reflectance". There are also "Load points..." and "Save points..." buttons for each grid. Below the viewports, a "Registration" dialog box is open, displaying the "Mean registration error: 0.0889213 [m]" and buttons for "Apply transform", "Copy in clipboard (need to post-multiply)", and "Cancel". To the right of the dialog, a file list shows "gisto_01/Grids/V36_sub4.rgp" and "gisto_01/Grids/V37_sub4.rgp". At the bottom, a status bar shows the time "00:23" and date "31-01-2011".

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ArchC 3D



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registo_03.recprj* - JRC 3D Reconstructor

File Navigation Survey Tools Window

Project Window

Search

Pattern:

Regular expression ☒ Case sensitive ☐

- ☒ V24_sub1
- ☒ V25_sub1
- ☒ V26_sub1
- ☒ V27_sub1
- ☒ V28_sub1
- ☒ V29_sub1
- ☒ V2_sub1
- ☒ V30_sub1
- ☒ V31_sub1
- ☒ V32_sub1
- ☒ V33_sub2
- ☒ V33_sub2
- ☒ V34_sub8
- ☒ V35_sub2
- ☒ V36_sub4
- ☒ V37_sub4
- ☒ **V38_sub4**
- ☒ V39_sub2
- ☒ V3_sub8
- ☒ V40_sub1
- ☒ V41_sub1
- ☒ V42_sub1

Adjust Pose: V37_sub4 Project Window

Property Browser

Pose

Multiselection

Property	Value
ColorID	[0, 0, 0] (255)
Comment	<comment>
Hyperlink	

Registration

Models to register (only the first one in the list is registered)

Load models to register... Remove Set as reference

tamento_3D/PROJECTOS_JRC/registo_01/Grids/V36_sub4.rgp

Reference models

Load reference models... Remove

D:/luis/02_projeto_trabalho/PROJECTO_FCT/02_DESENVOLV

Parameters

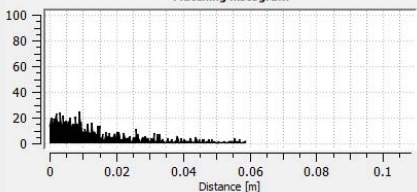
Property	Value
Allow only rotation	☐ False
Number of control points	5000
Min number of control points	1000
Sufficient control points	2800
Min search-distance [m]	0.1000
Max search-distance [m]	0.8000
Registration delta-change [m]	0.0010
Registration error [m]	0.0010
Min number of iterations	10
Max number of iterations	100
Max normal divergence [deg]	45.0

Result

Performing iterative search of corresponding points, iteration=5
 Performing iterative search of corresponding points, iteration=6
 Performing iterative search of corresponding points, iteration=7
 Performing iterative search of corresponding points, iteration=8
 Performing iterative search of corresponding points, iteration=9
 Performing iterative search of corresponding points, iteration=10
 Performing iterative search of corresponding points, iteration=11

Mean error [m] = 0.0196745 | Iteration: 10 | Used points = 1500 (5000)

Matching histogram



Process Stop Close

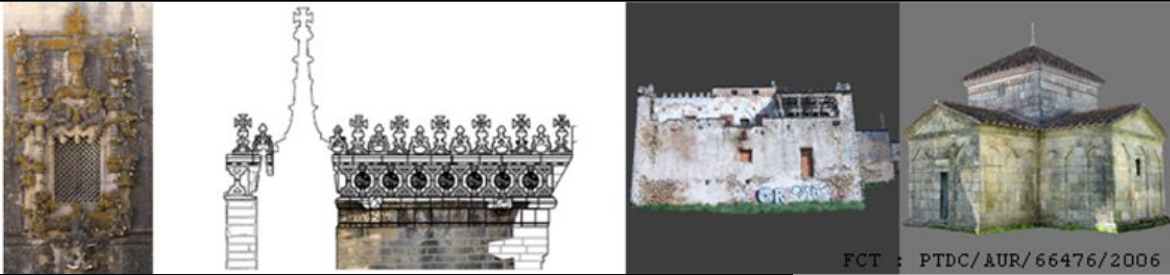
Camera Calibration Inspection

Speed [m/s] 1 Duration: ?

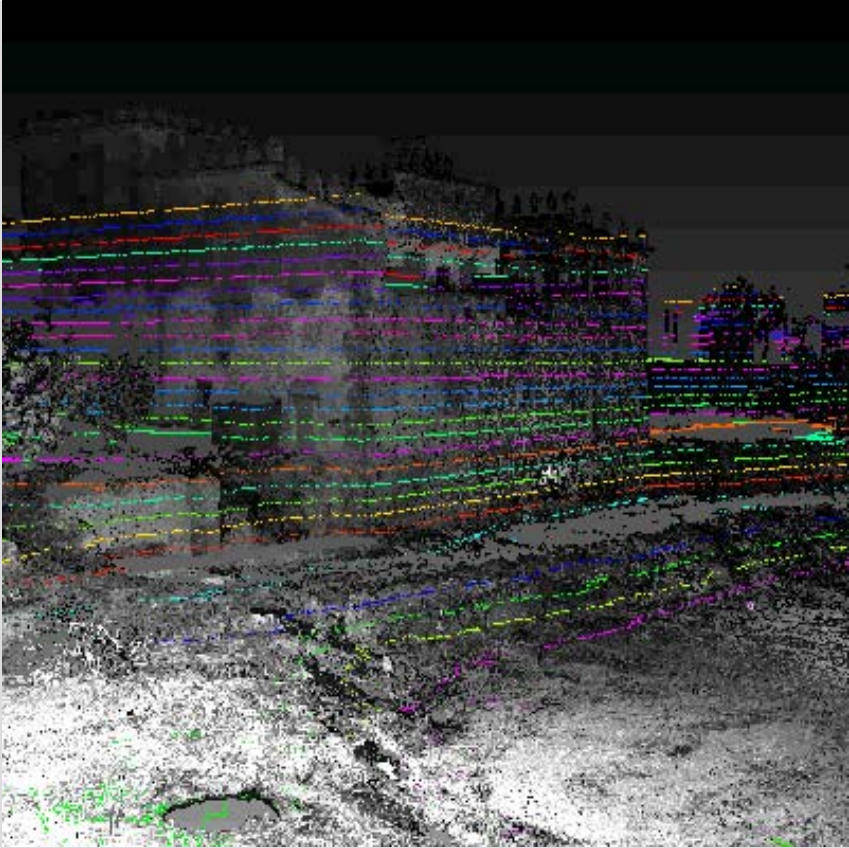
PT 00:24 31-01-2011

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ArchC 3D

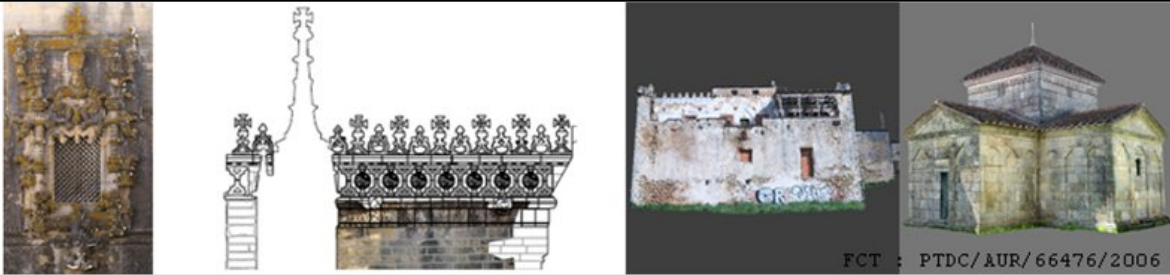


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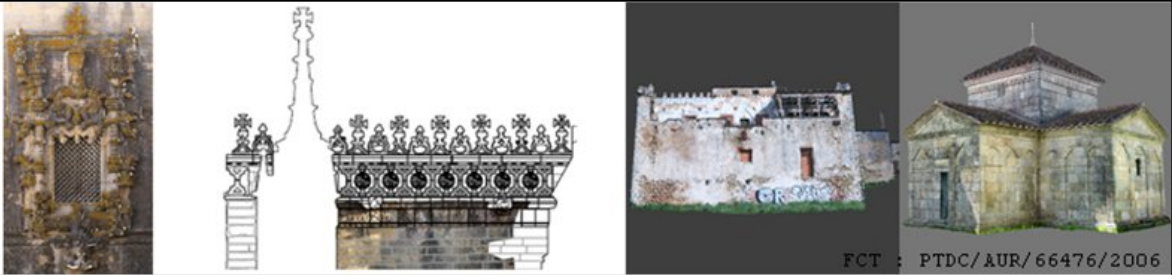


0 ————— 20m



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ArcHC
3D

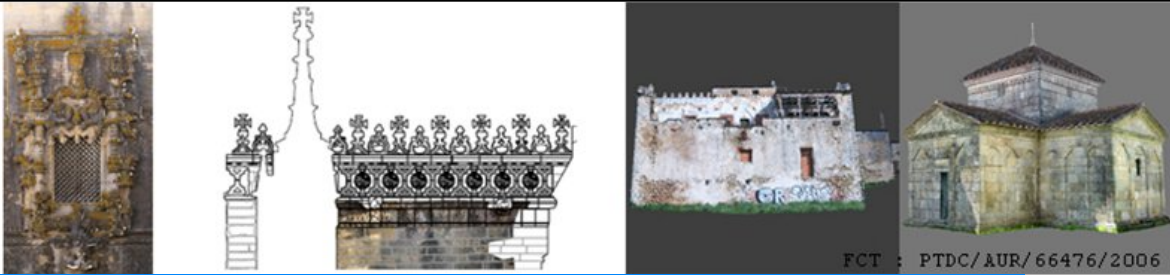


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Capela de S. Frutuoso de Montélios - Braga

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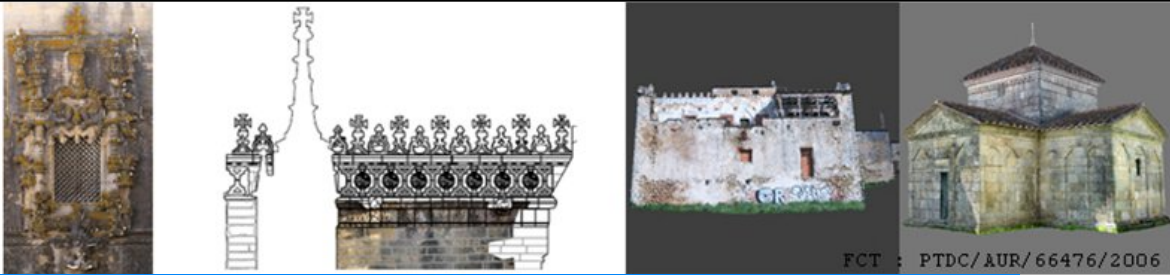


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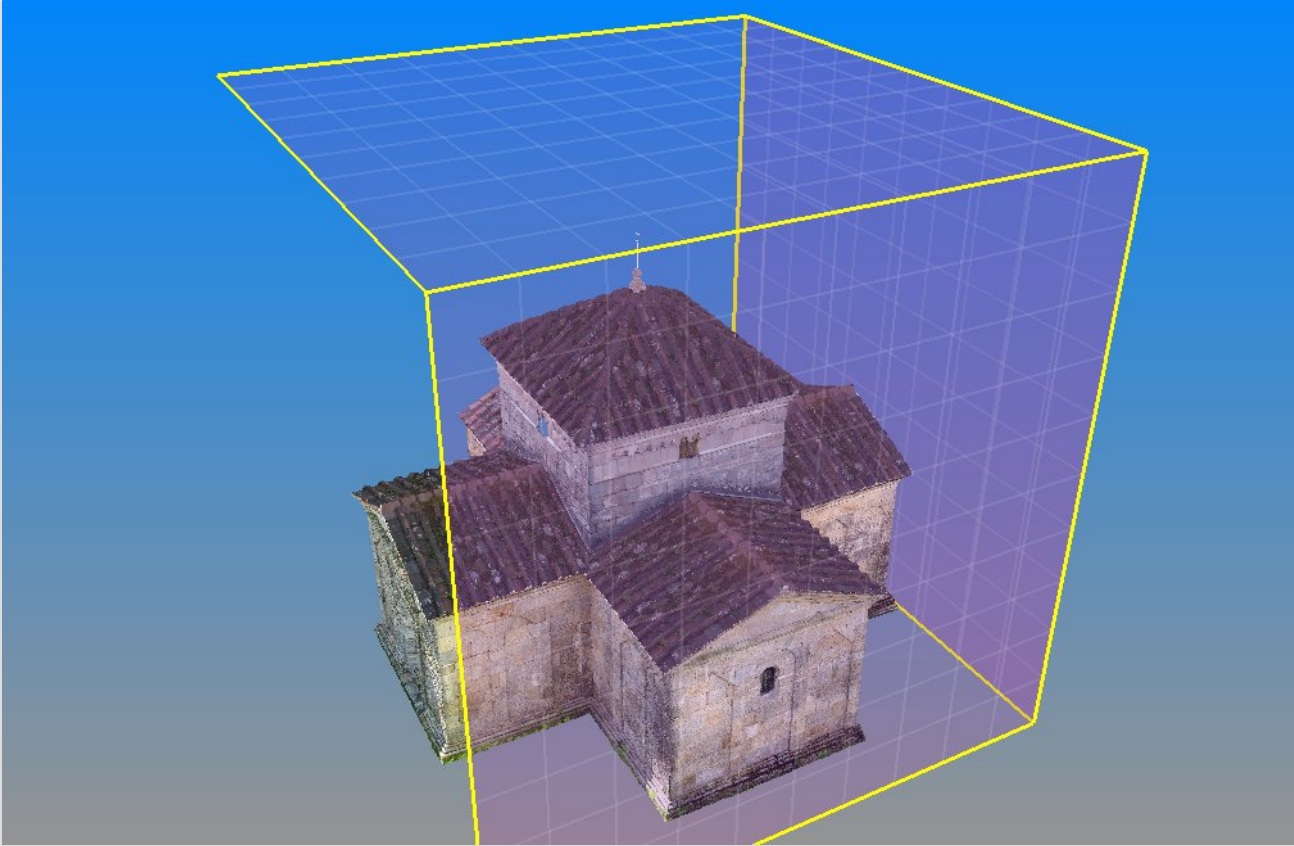


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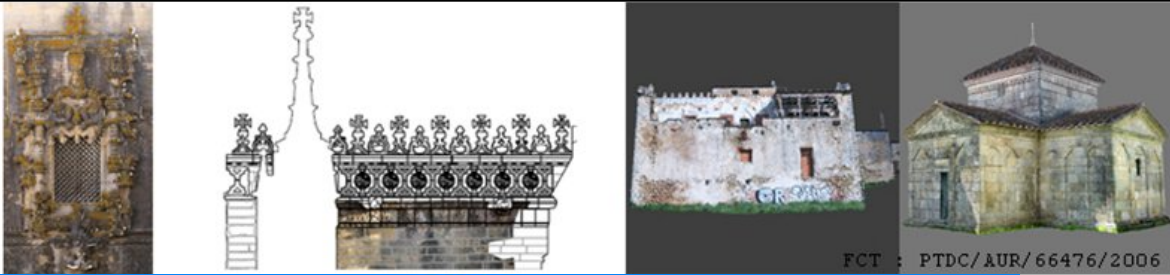


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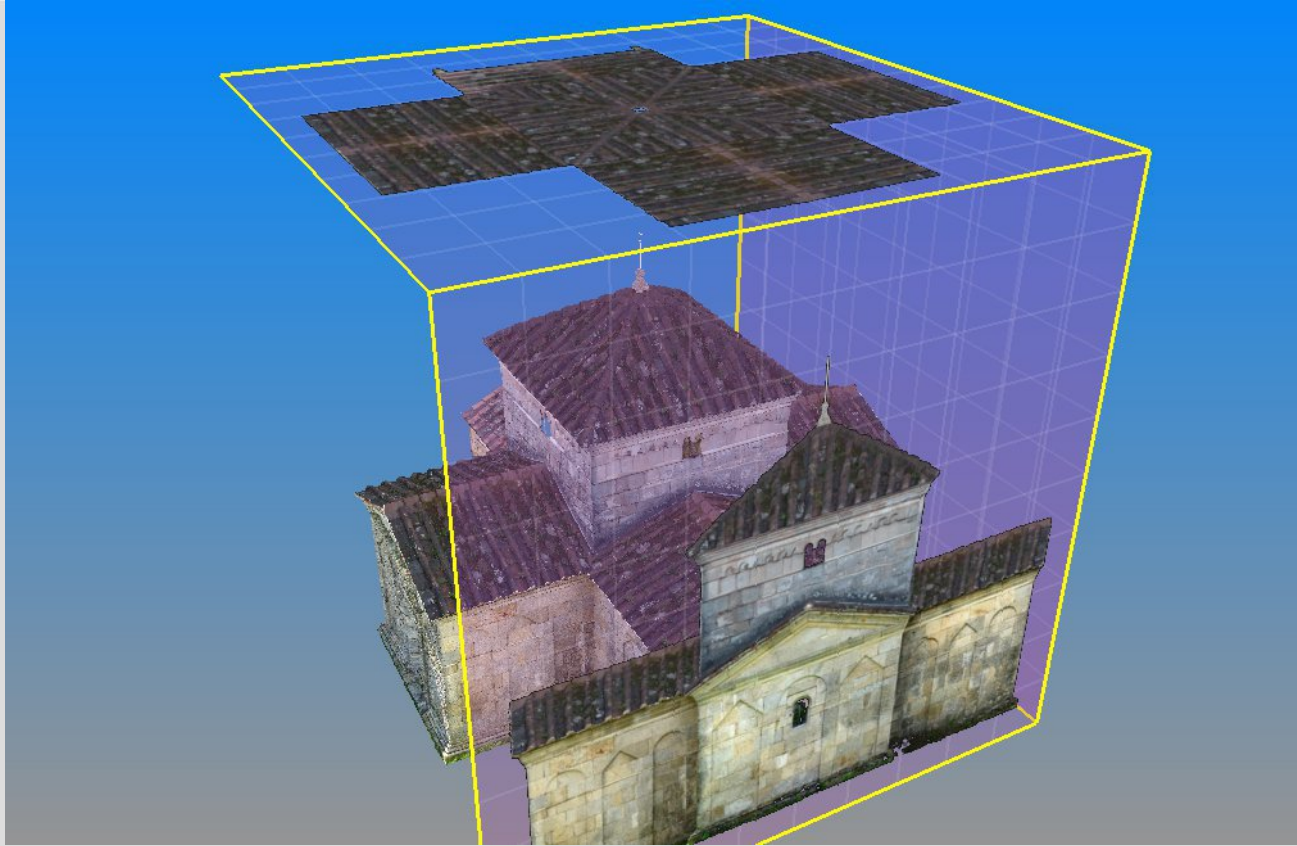


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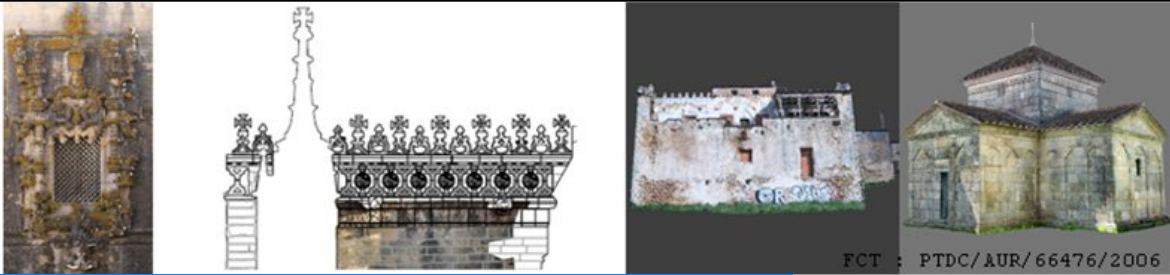


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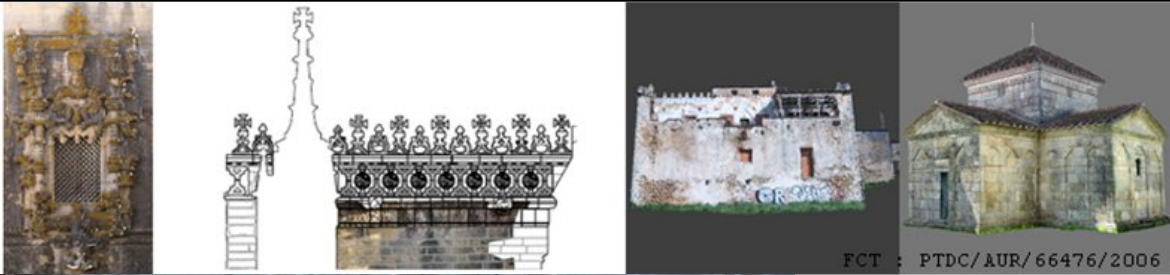


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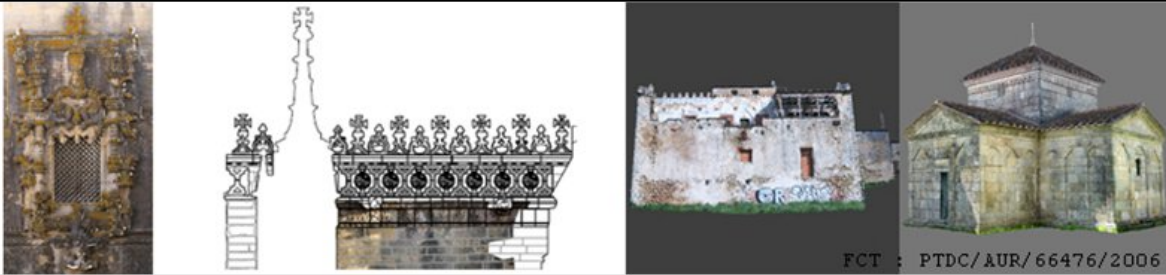


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ArcHC
3D

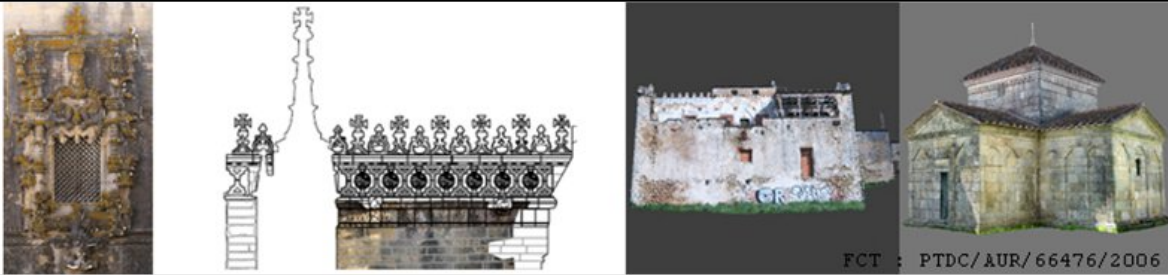


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Convento de Cristo – Tomar (Os Paços do Infante)

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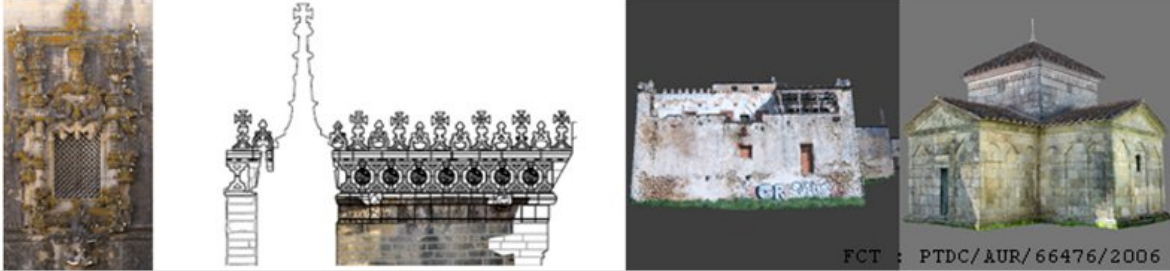


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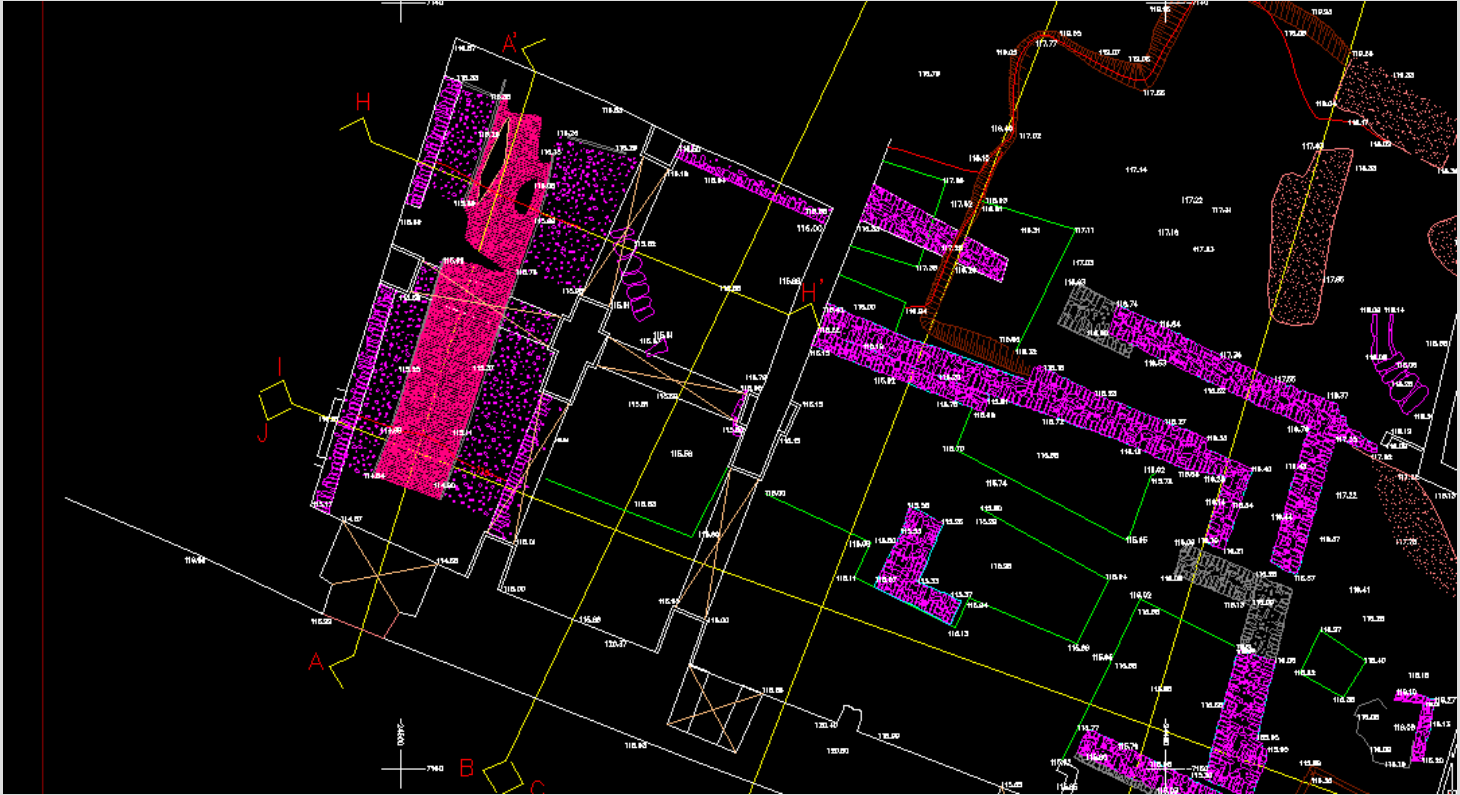


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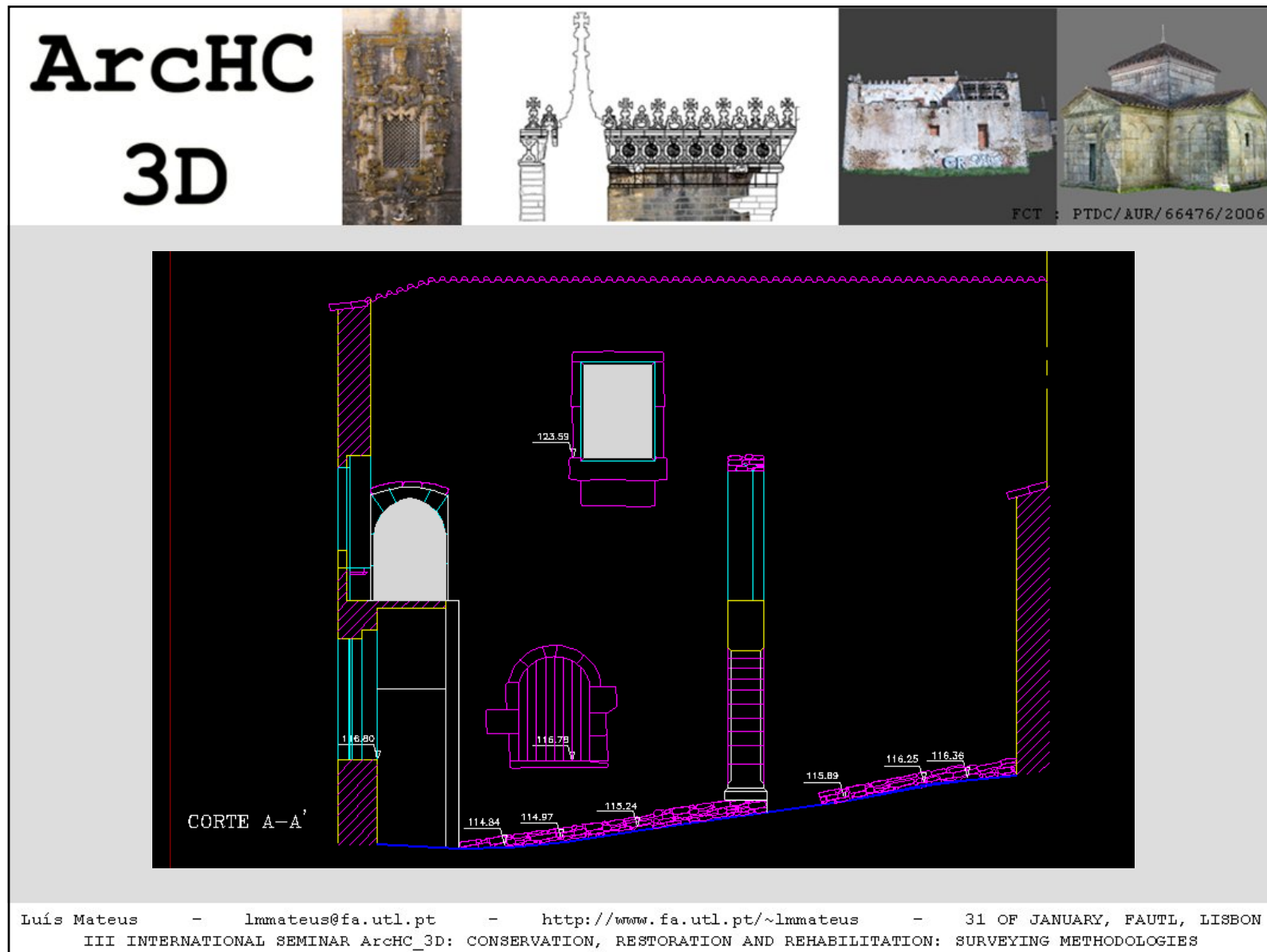
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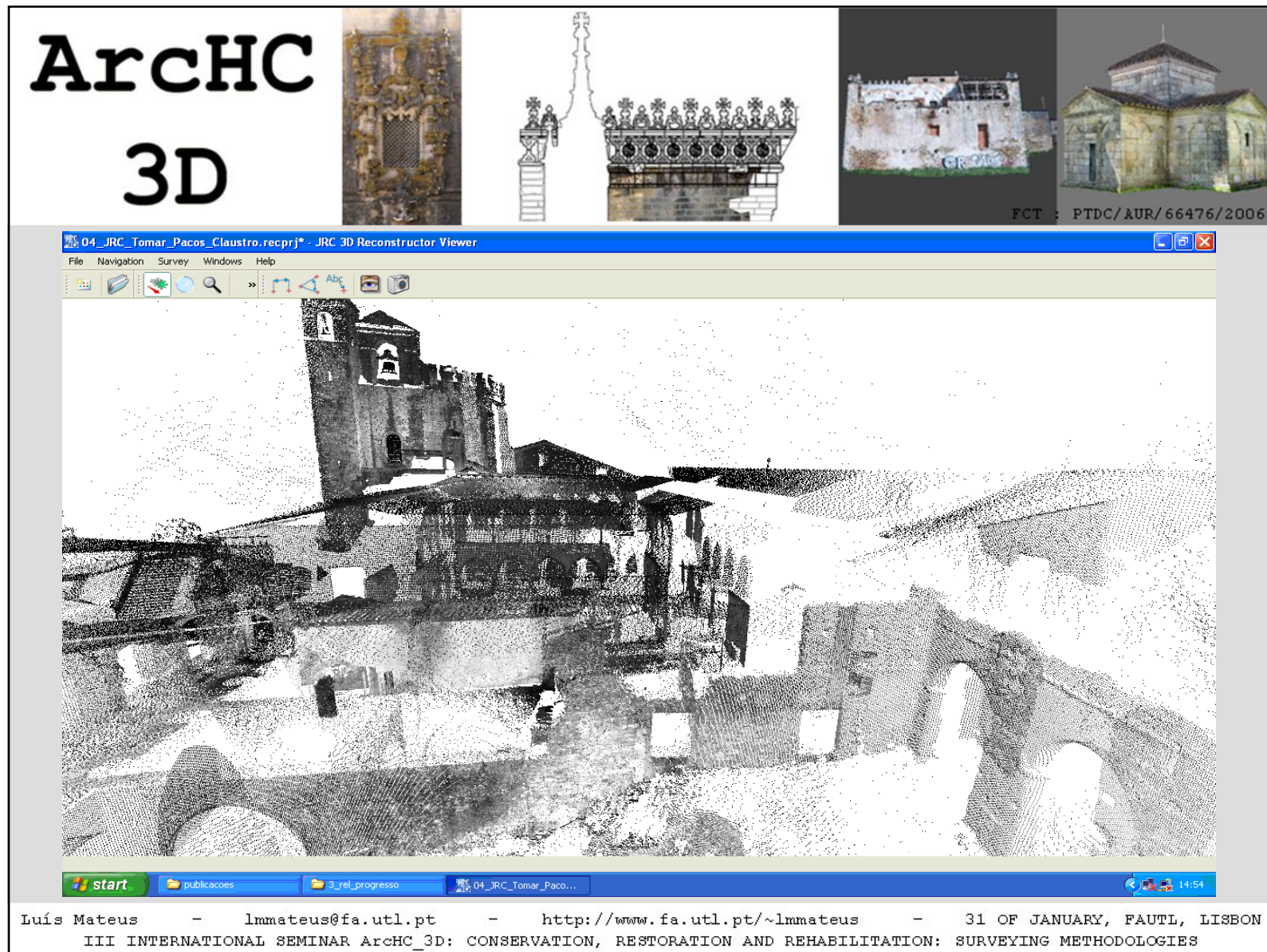


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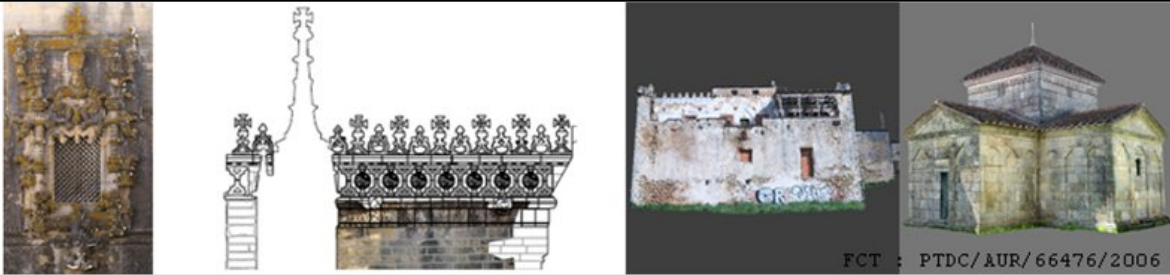


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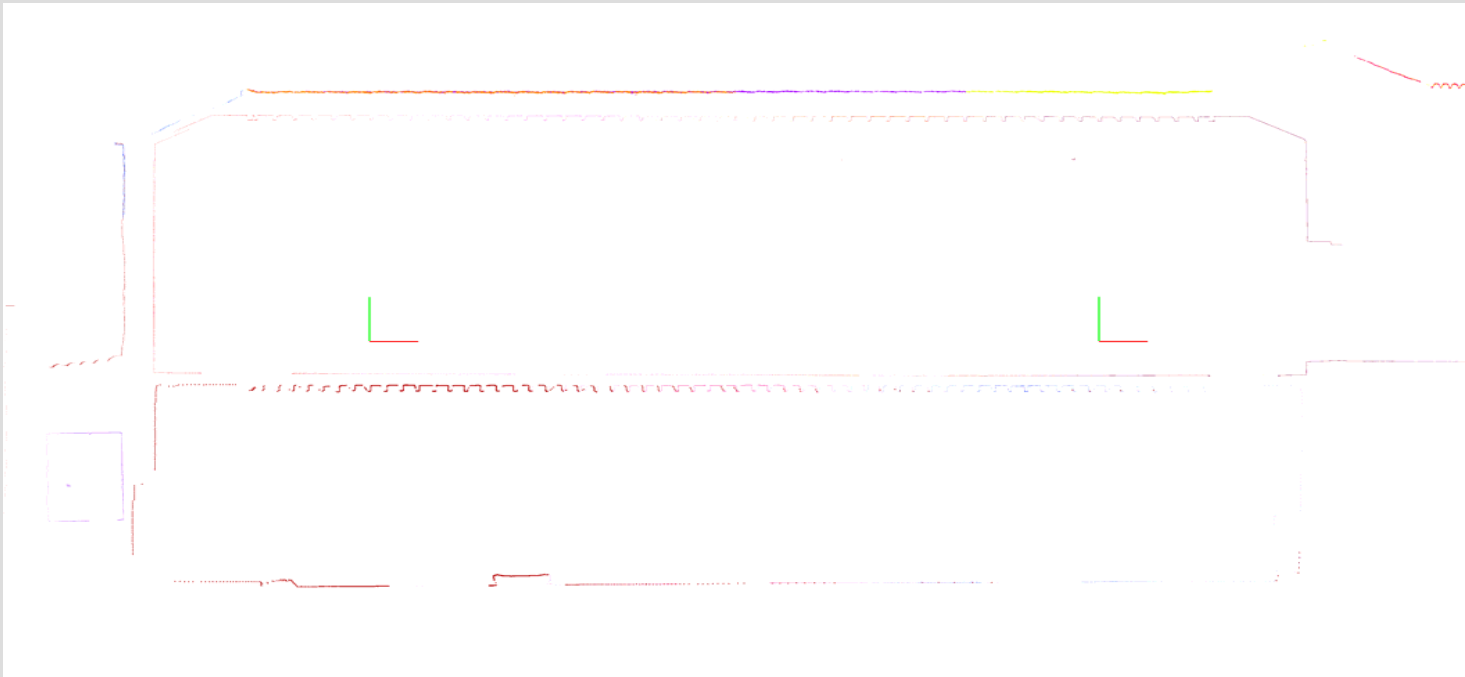




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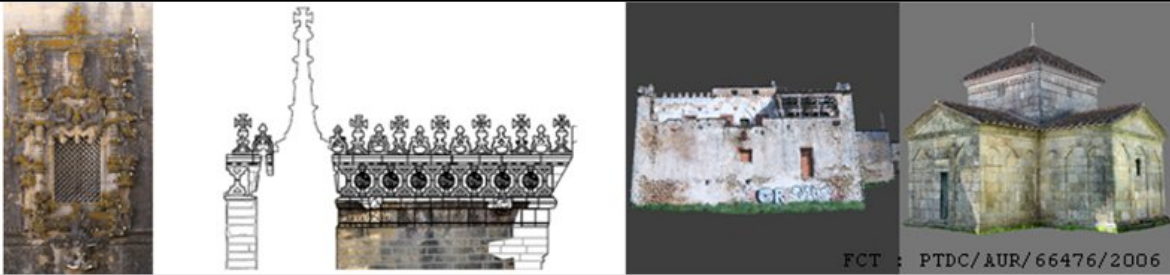


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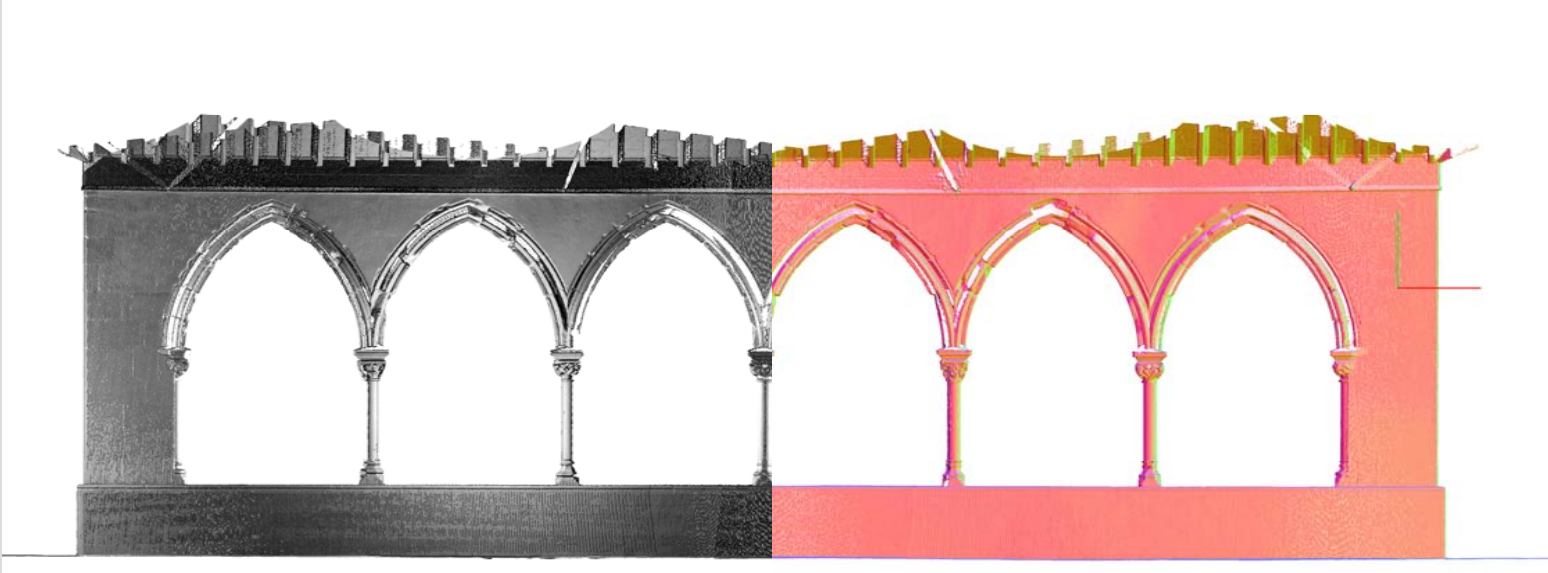


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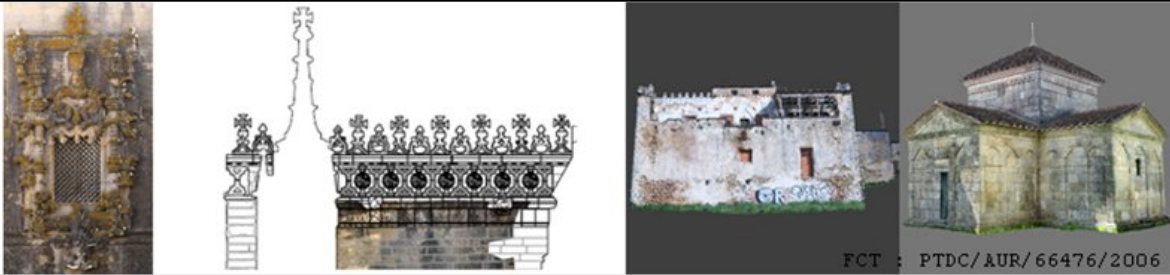


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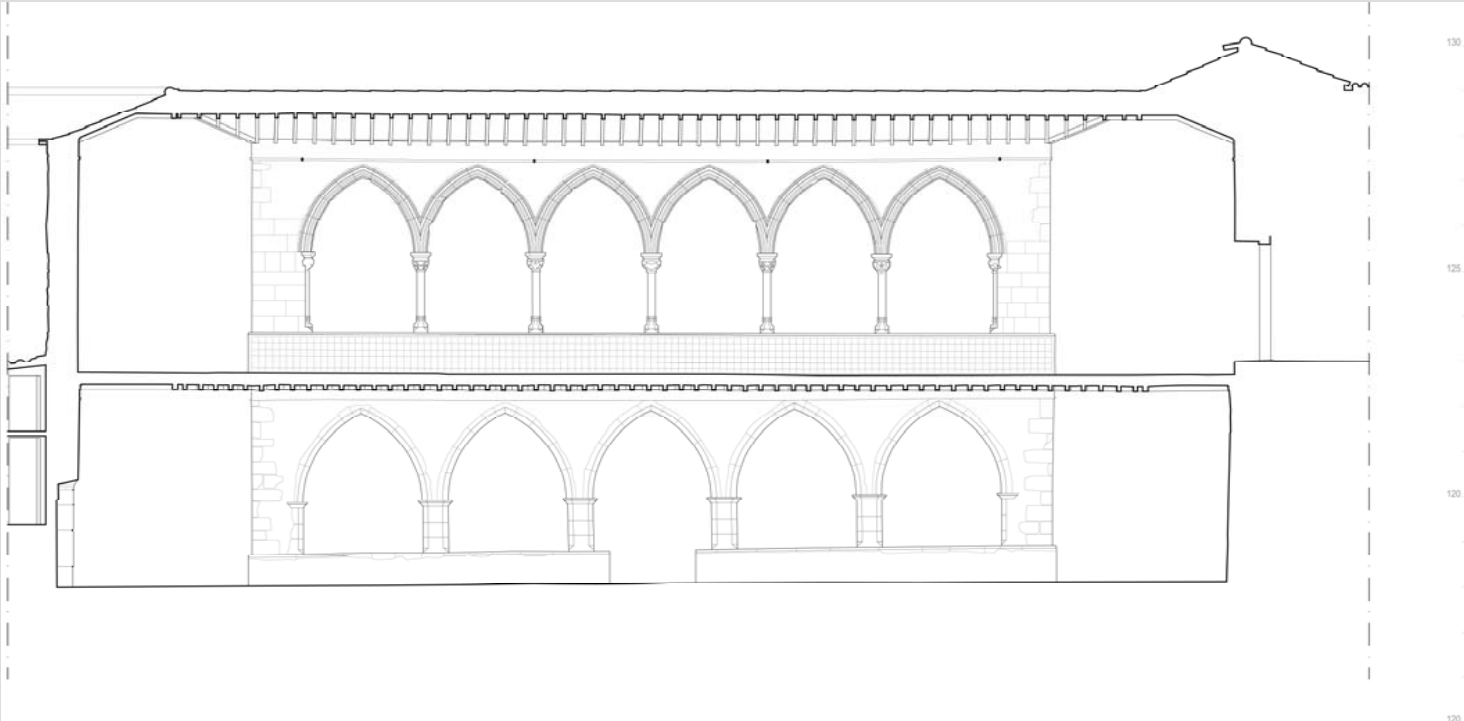


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ArcHC 3D

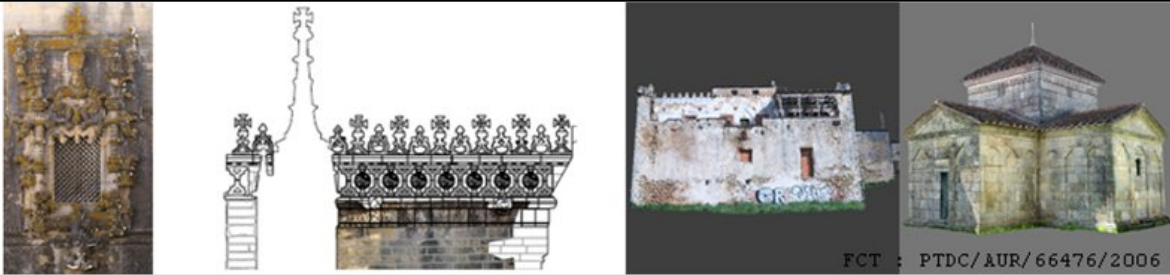


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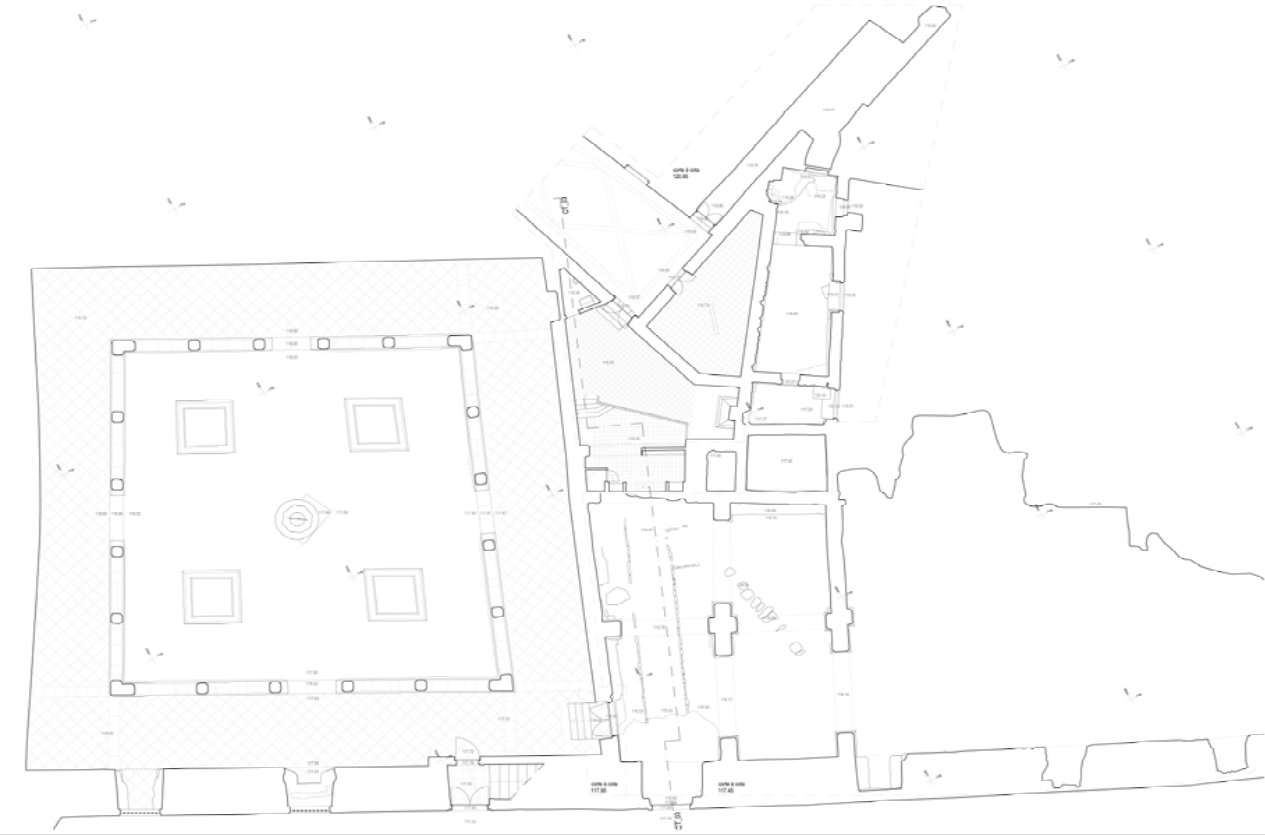


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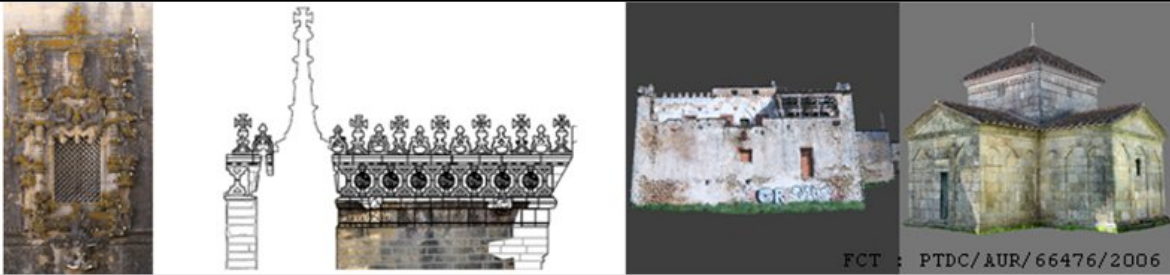


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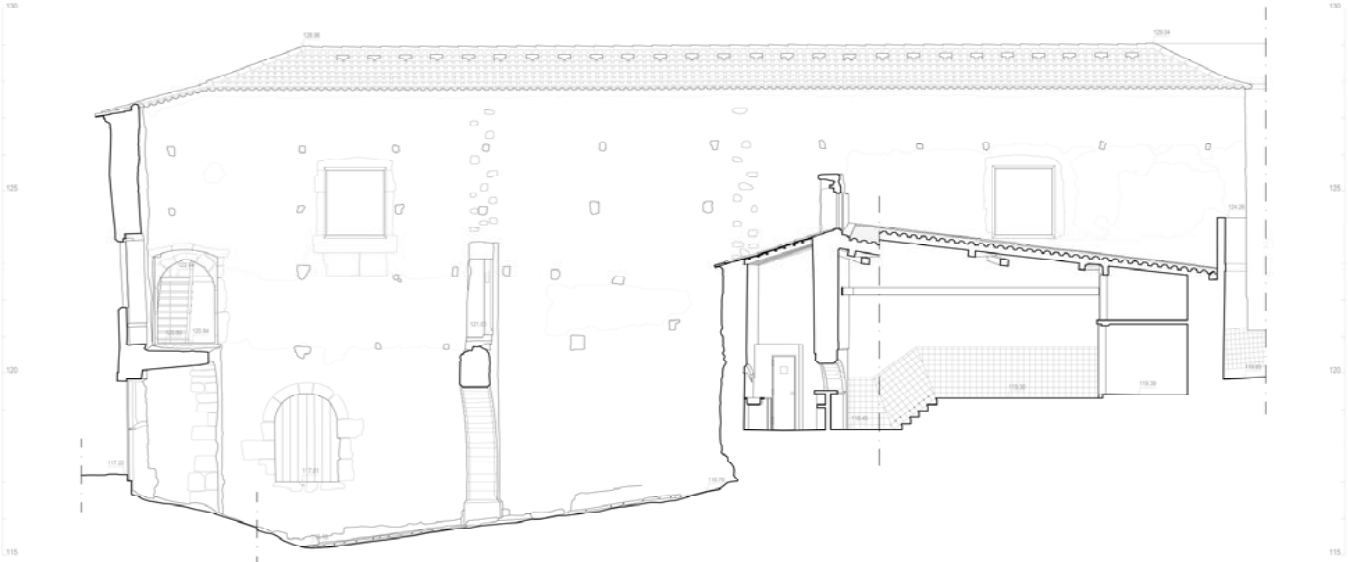


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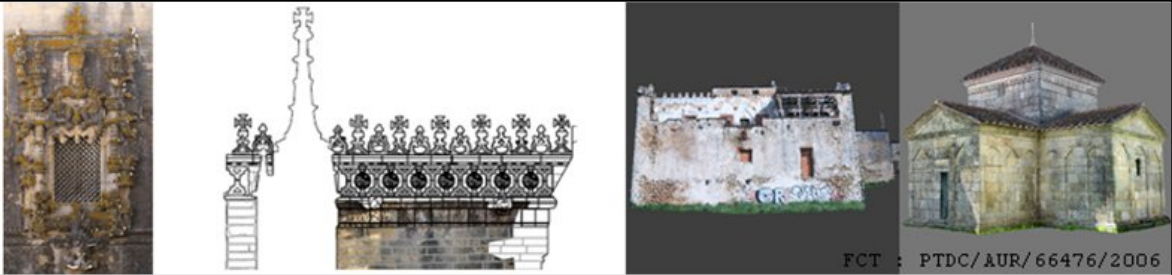


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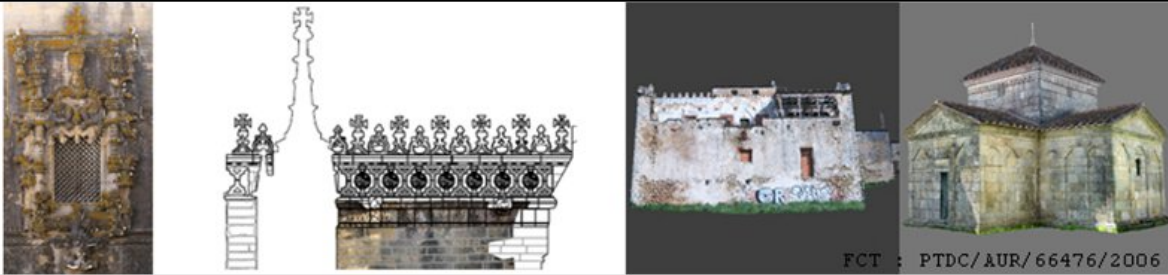
ArcHC
3D



Convento de Cristo – Tomar
(A Nave Manuelina)

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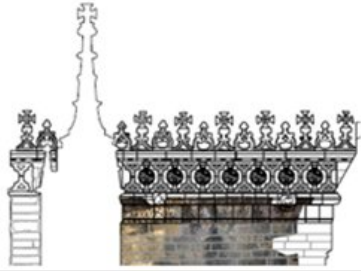


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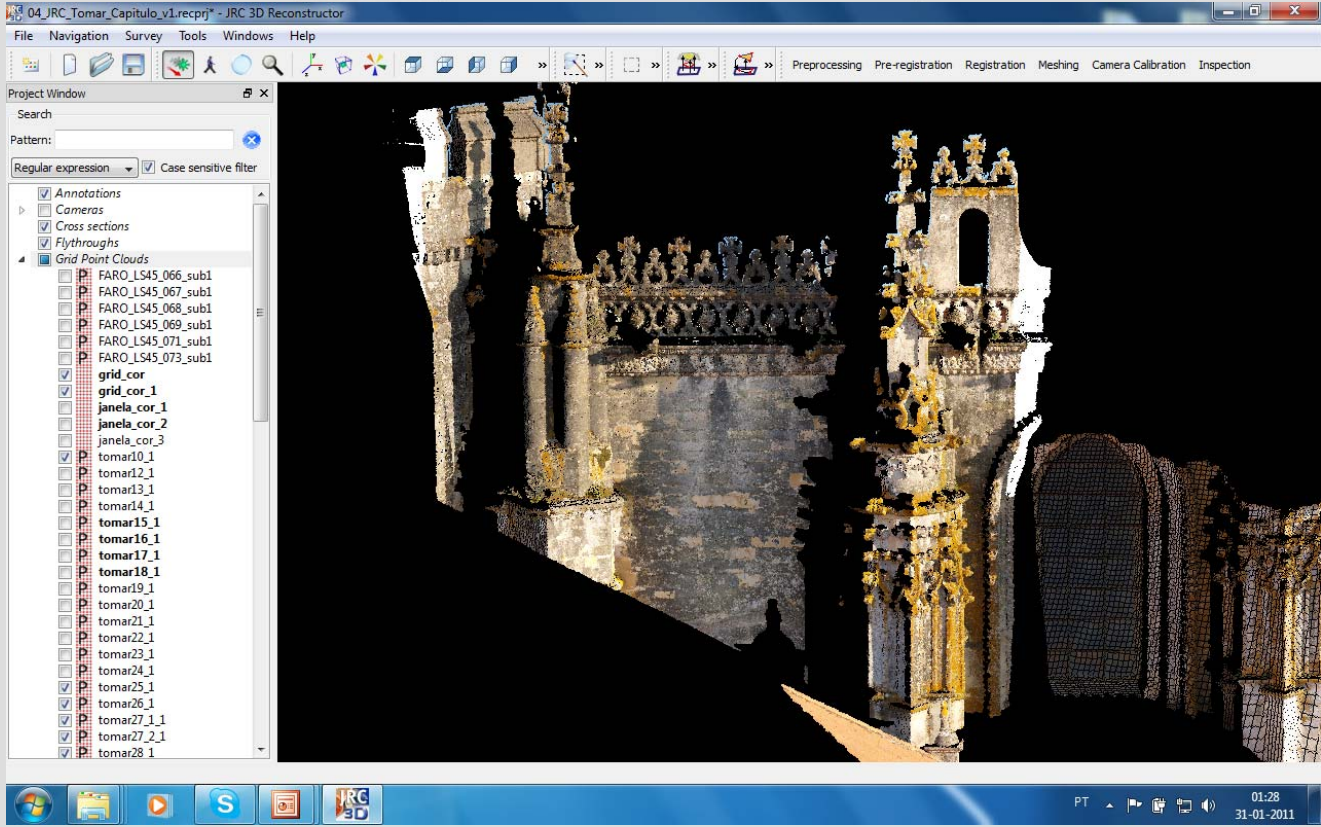
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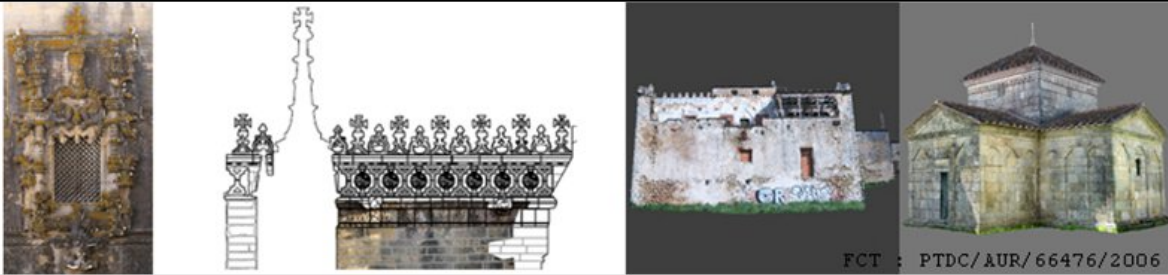


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ArchC 3D

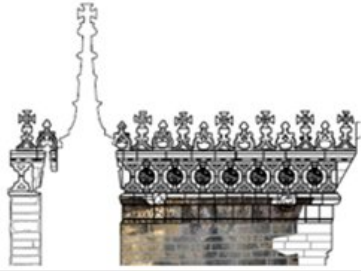


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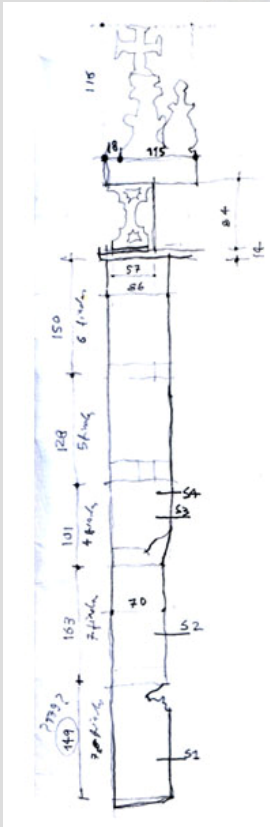
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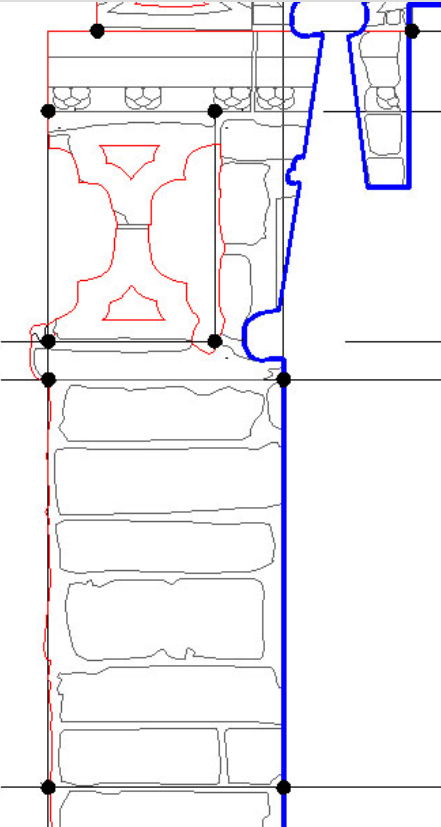





FCT : PTDC/AUR/66476/2006



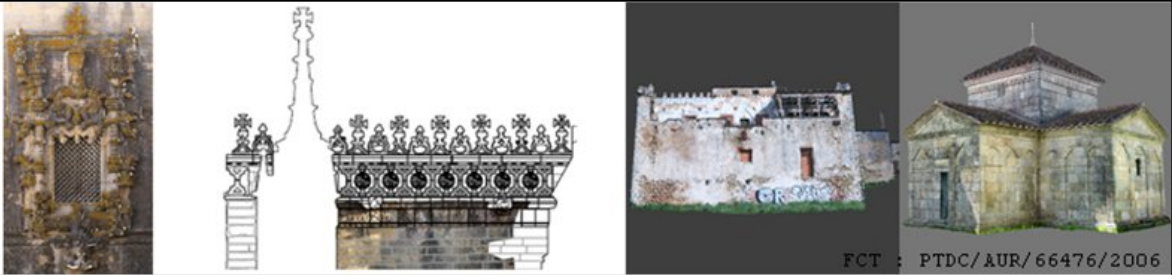


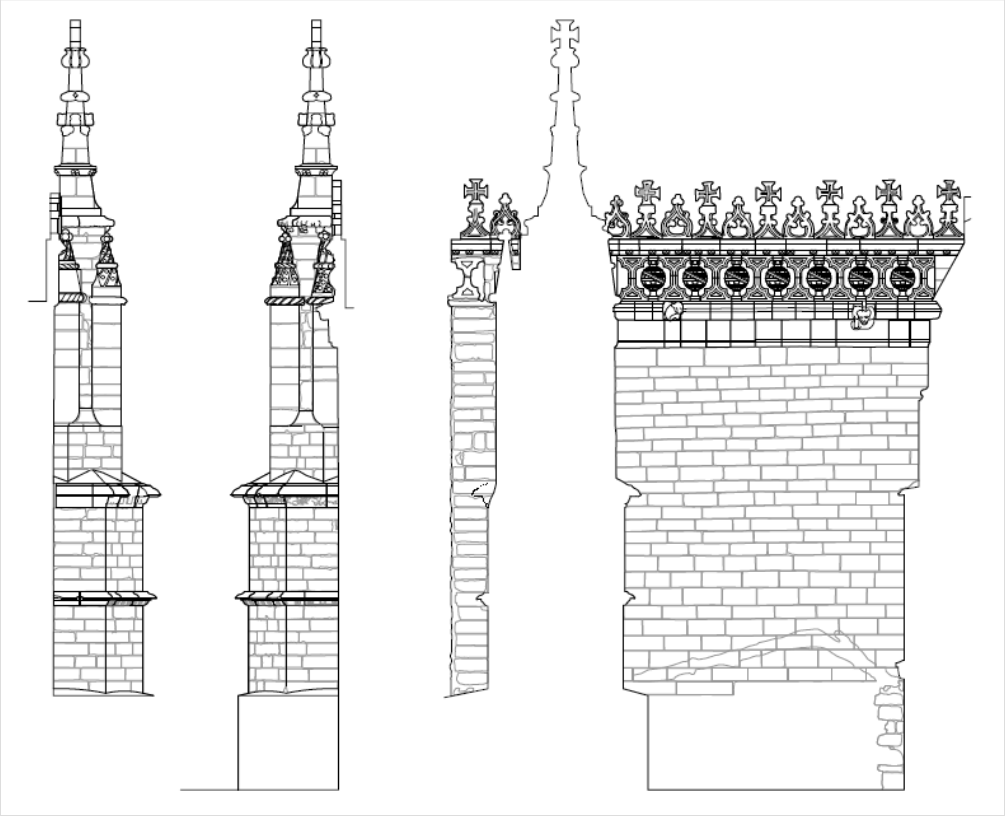
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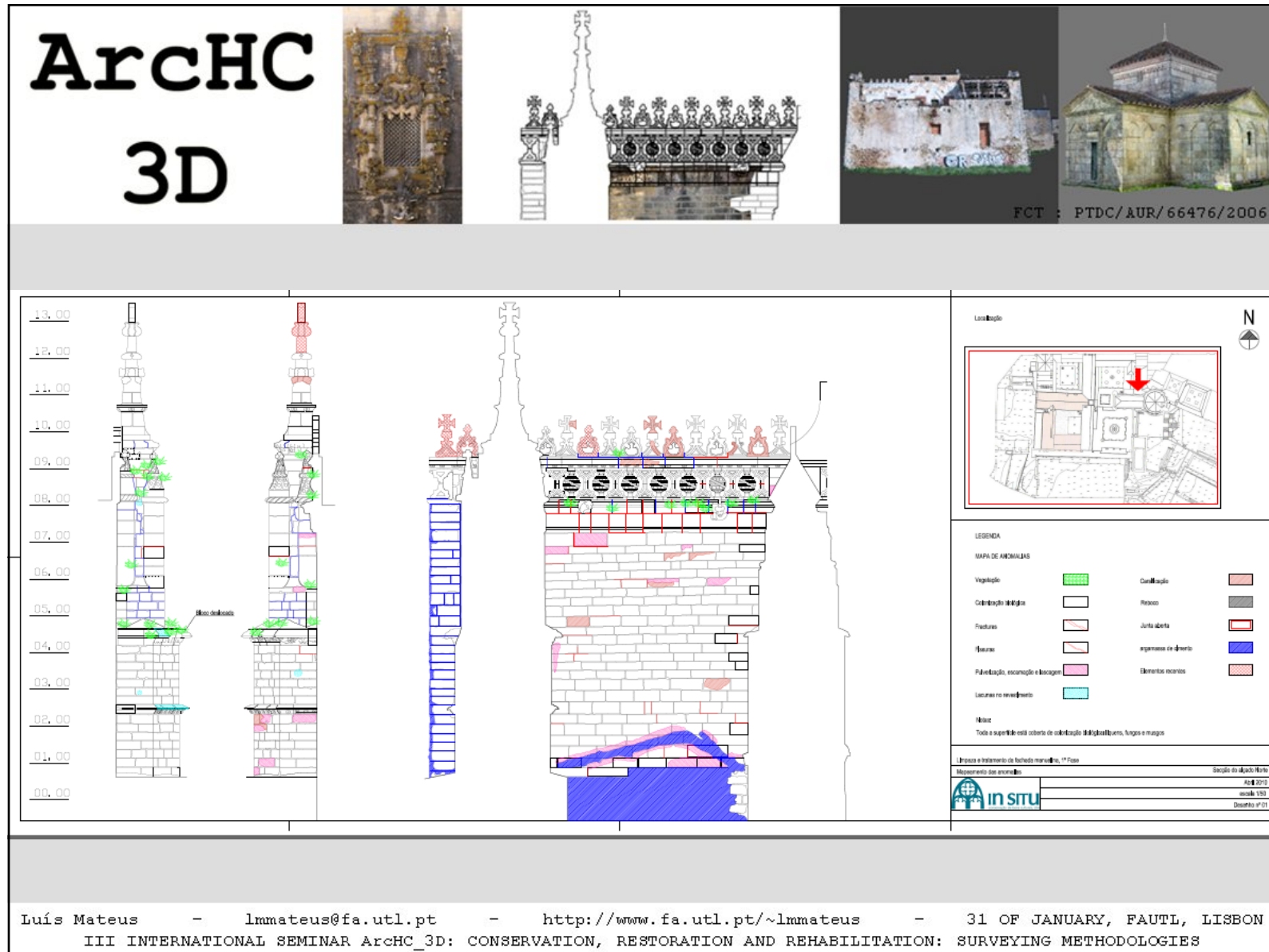
ArcHC 3D



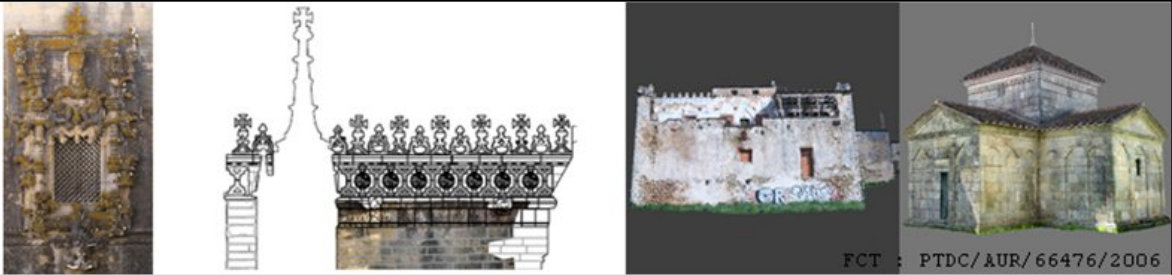
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ArcHC
3D

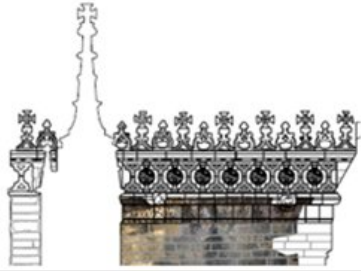


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Convento de Cristo – Tomar (Entre os Paços do Infante e a Nave Manuelina)

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ArchC 3D



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04_JRC_Tomar_Capitulo_diagn.recprj* - JRC 3D Reconstructor

File Navigation Survey Tools Windows Help

Project Window

Search

Pattern:

Regular expression ☒ Case sensitive filter ☒

- ☒ Annotations
- ☒ Cameras
 - ☒ plano_01
- ☒ Cross sections
- ☒ Flythroughs
- ☒ Grid Point Clouds
 - ☒ C03_sub1
 - ☒ tomar25_1
 - ☒ tomar27_1_1
- ☒ Groups
- ☒ Planes
- ☒ Polylines
- ☒ Triangle Meshes
- ☒ Unstructured Point Clouds

Property Browser

Pose

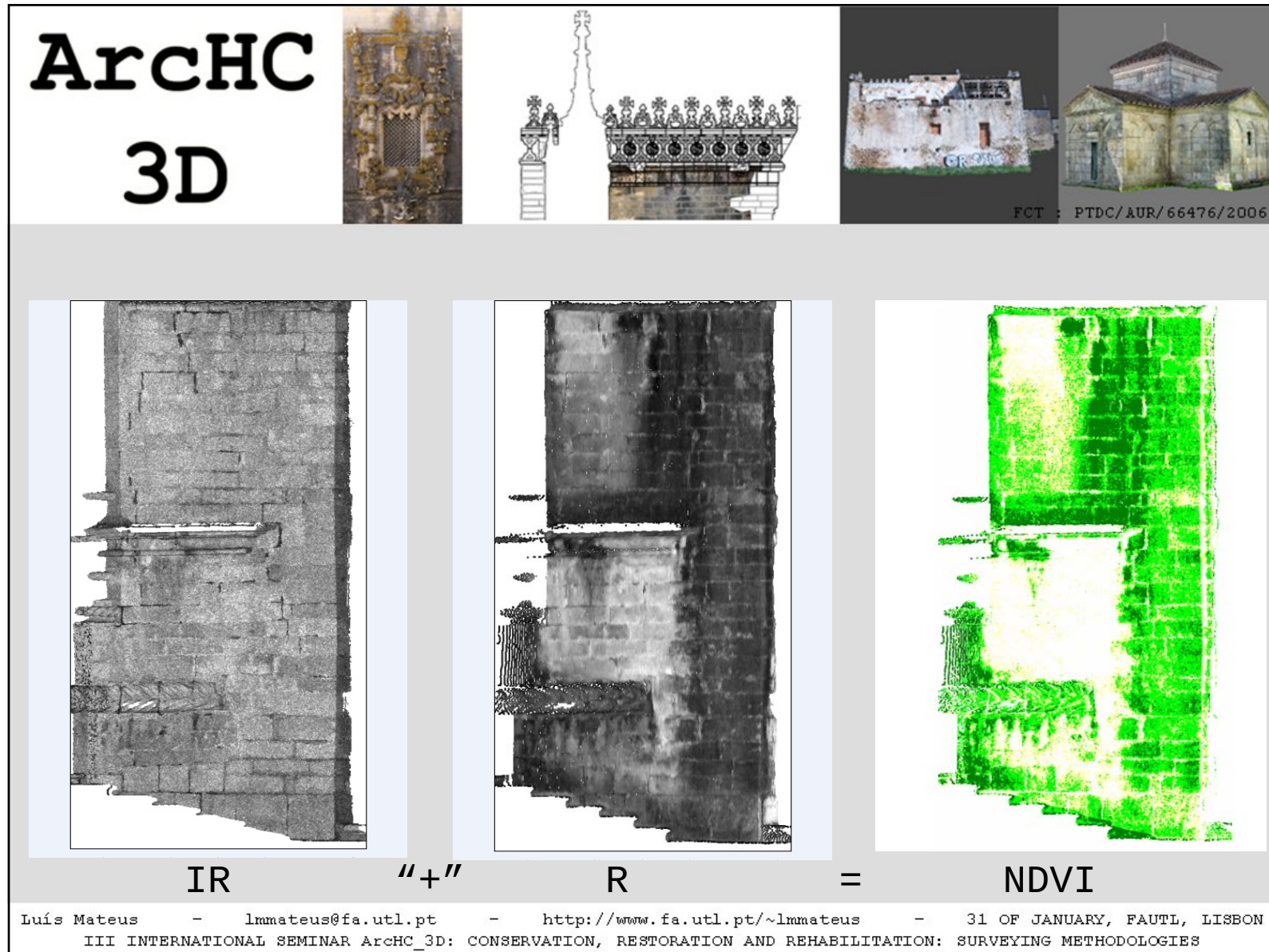
OrthoCameraItem: plano_01

Property	Value
Color ID	[255, 0, 241] (255)
Comment	<<comment>>
Hyperlink	
Draw annotation	☐ False
Draw coordinate f...	☐ False
Clip far plane [m]	0.200000
Clip near plane [m]	-0.200000
Image size [pix]	50 x 100
Shadow depth bias	16
Extent on X [m]	4.00
Extent on Y [m]	8.00
Keep extent's asp...	☒ True

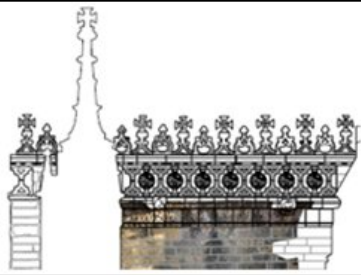
start Adobe Photoshop tese.doc - Microsoft ... Inbox - Microsoft Out... 03_casos_de_estudo Aerial Photography H... 04_JRC_Tomar_Capit... 16:23

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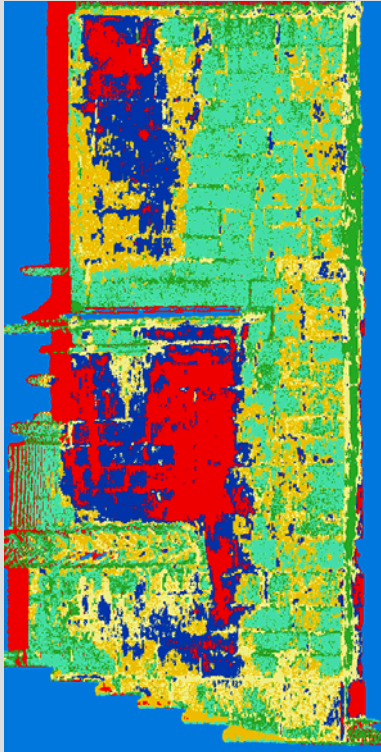


ArchC 3D

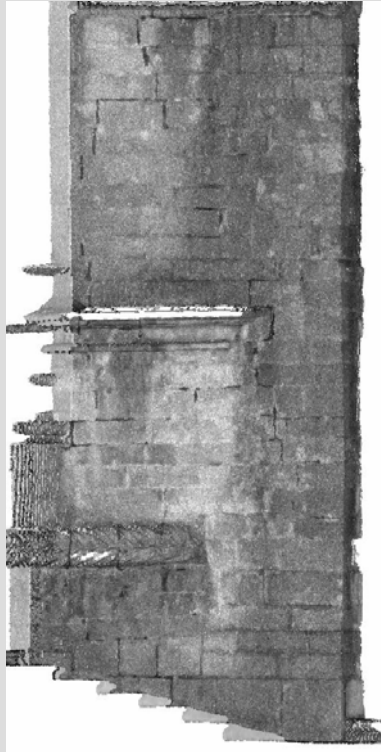





FCT : PTDC/AUR/66476/2006



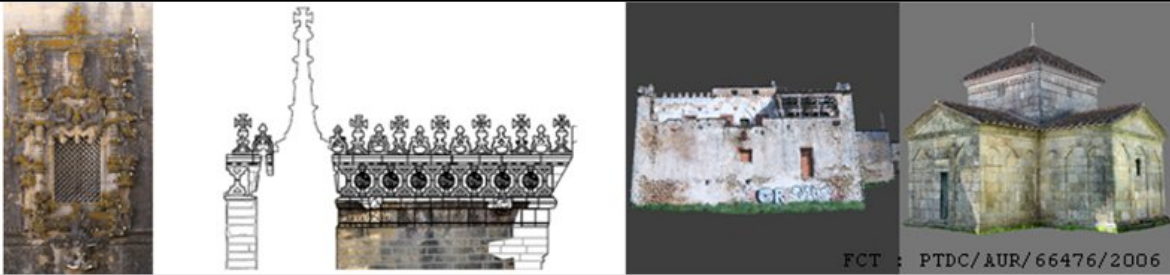
classificação por *isoclust*



componente principal

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ArcHC 3D

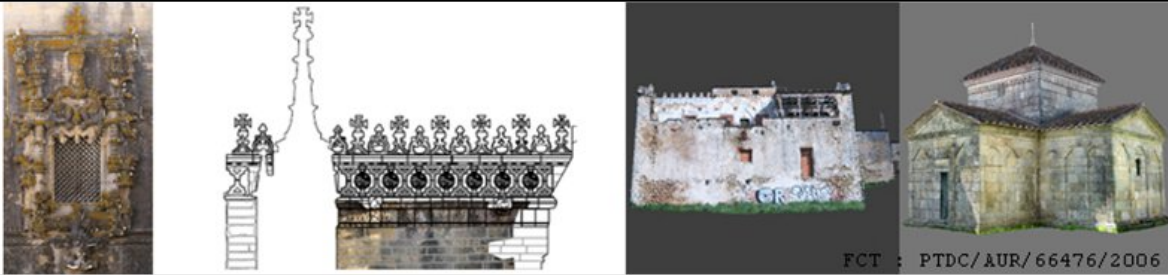


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O Terreiro do Paço e . . .

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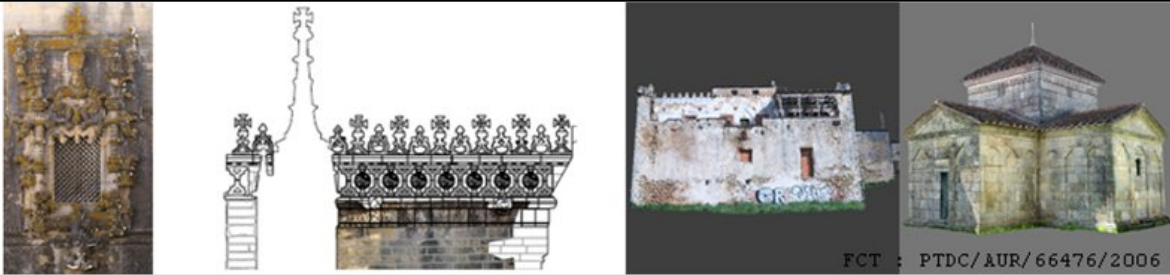


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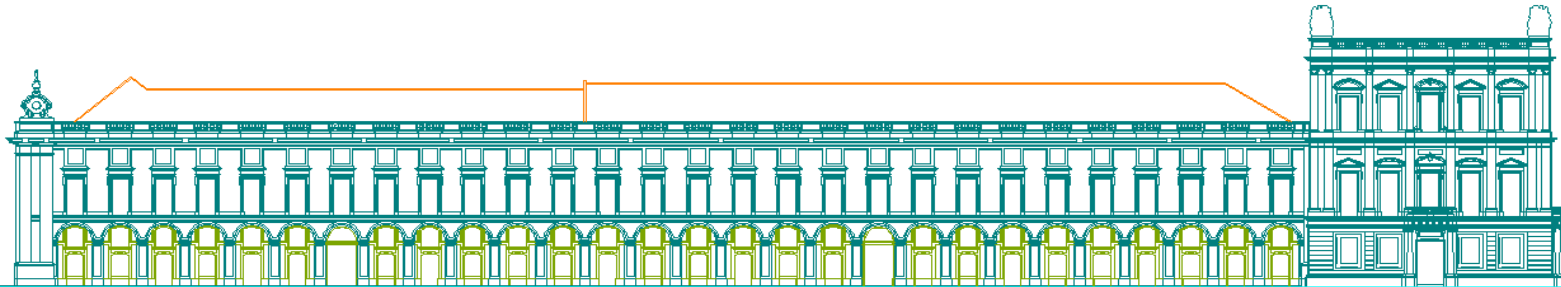
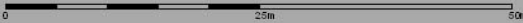
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FCT : PTDC/AUR/66476/2006

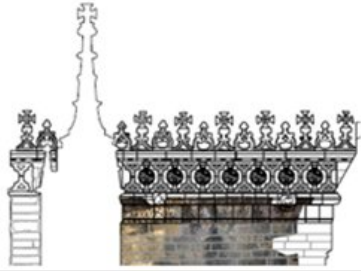


Terreiro do Paço
- Alçado da ala nascente (TPn_01 e TORn_02)



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ArchC 3D



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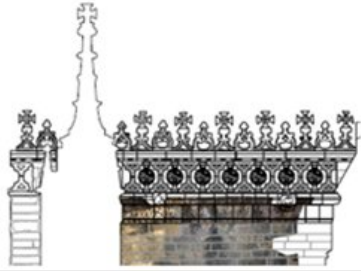
MINISTÉRIO DAS FINANÇAS
- Alçado Norte 02 -

0 25m 50m

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ArchC 3D

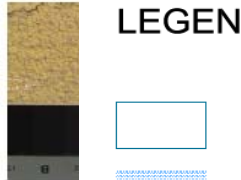




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LEGENDA:

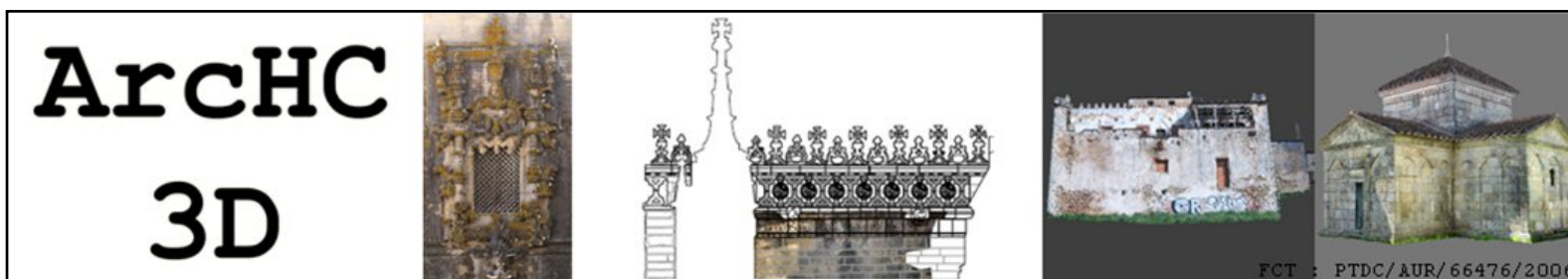
	Rd1 - Lacunas
	Rj - Perda de coesão dos rebocos
	Rf - Fendas na camada cromática
	Rh - Perda de coesão da camada de pintura (pulverulência)
	Re - Micro-fendilhação (craquelé) da camada de pintura



CE - Ala nascente (Alçado nascente) - Ilustração das formas de degradação das pinturas e rebocos

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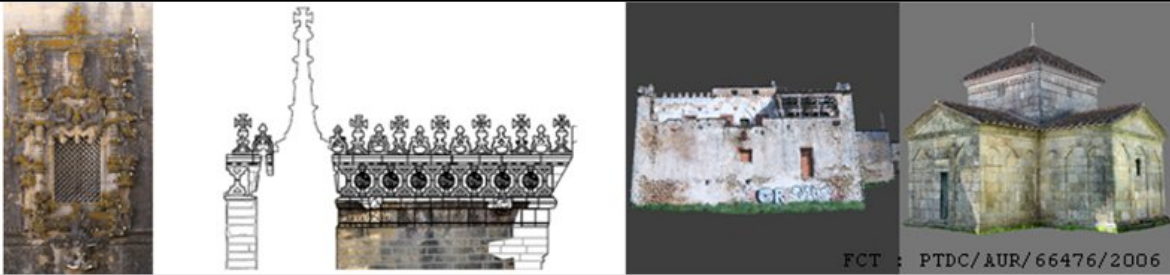
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QUADRO P.3.a.

QUANTIFICAÇÃO DAS ACÇÕES - Elementos Pétreos		Valores estimados por extrapolação		
		TP (Terreiro do Paço)		
Acções	Unidade de medida	Quantidade	Custo unitário (euros)	Custo total (euros)
1. Limpeza de superfícies com grau Pd1	m ²	85		
2. Limpeza de superfícies com grau Pa0 + Pa1	m ²	6022		
3. Limpeza de superfícies com grau Pa1 + Pa2	m ²	3003		
4. Limpeza de superfícies com anomalia Pa2	m ²	1205		
5. Limpeza de superfícies com grau Pa2 + Pa3	m ²	480		
6. Limpeza de superfícies com anomalia Pa3	m ²	433		
7. Limpeza de superfícies com grau Pa3 + Pa4	m ²	91		
8. Limpeza de superfícies com anomalia Pa4, em áreas sem decoração significativa	m ²			
9. Tratamento de gárgulas, nomeadamente, limpeza, e todas as acções de estabilização de fragmentos, se necessário, tratamento de juntas, compatibilização cromática	unidade	70		
10. Tratamento de outros elementos escultóricos incluindo nomeadamente limpeza				

ArchC 3D

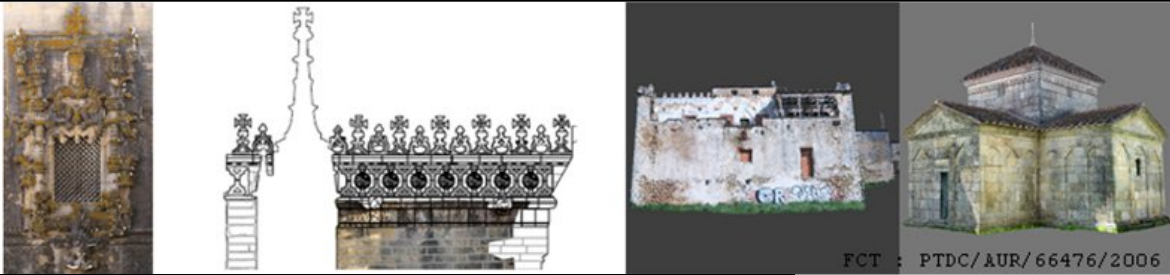


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...o Arco da Rua Augusta

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ArchC 3D

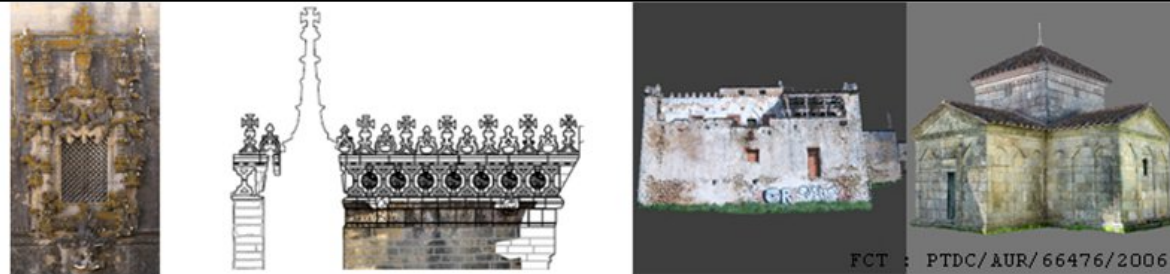


FCT : PTDC/AUR/66476/2006



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ArchC 3D



Algumas conclusões:

Devem ser sempre as circunstâncias e os objectivos de intervenção a nortear a escolha do meios documentais a empregar.

O VL3D combinado com a fotogrametria está a contribuir para uma mudança de mentalidade na abordagem ao problema da documentação gráfica em Conservação da Arquitectura abrindo novas perspectivas de aplicação.

O VL3D permite, em situações complexas, obter de forma mais rápida e fiável o mesmo tipo de produto gráfico 2D que se obtém tradicionalmente utilizando técnicas clássicas (ex. levantamento manual).

ArchC 3D



Algumas conclusões:

O VL3D combinado ou não com a fotogrametria permite flexibilizar o processo de projecto na medida em que torna mais acessível a produção de documentação base sem que para isso seja necessário mais trabalho de campo.

As imagens de reflectância do VL3D utilizadas individualmente ou combinadas podem constituir-se como suportes de análise do estado de conservação.

O VL3D é ainda uma tecnologia pouco acessível a não especialistas e requer elevados recursos computacionais.