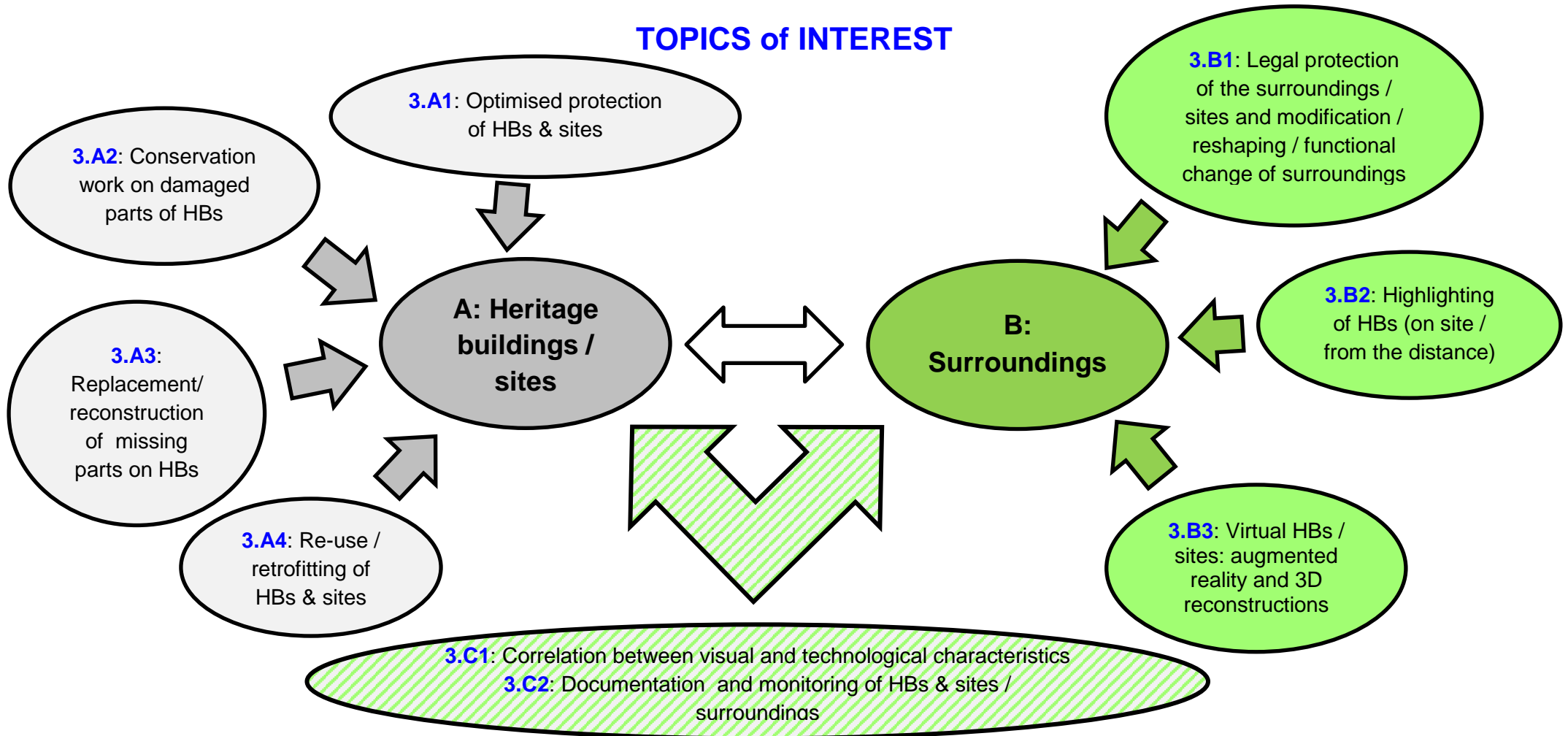
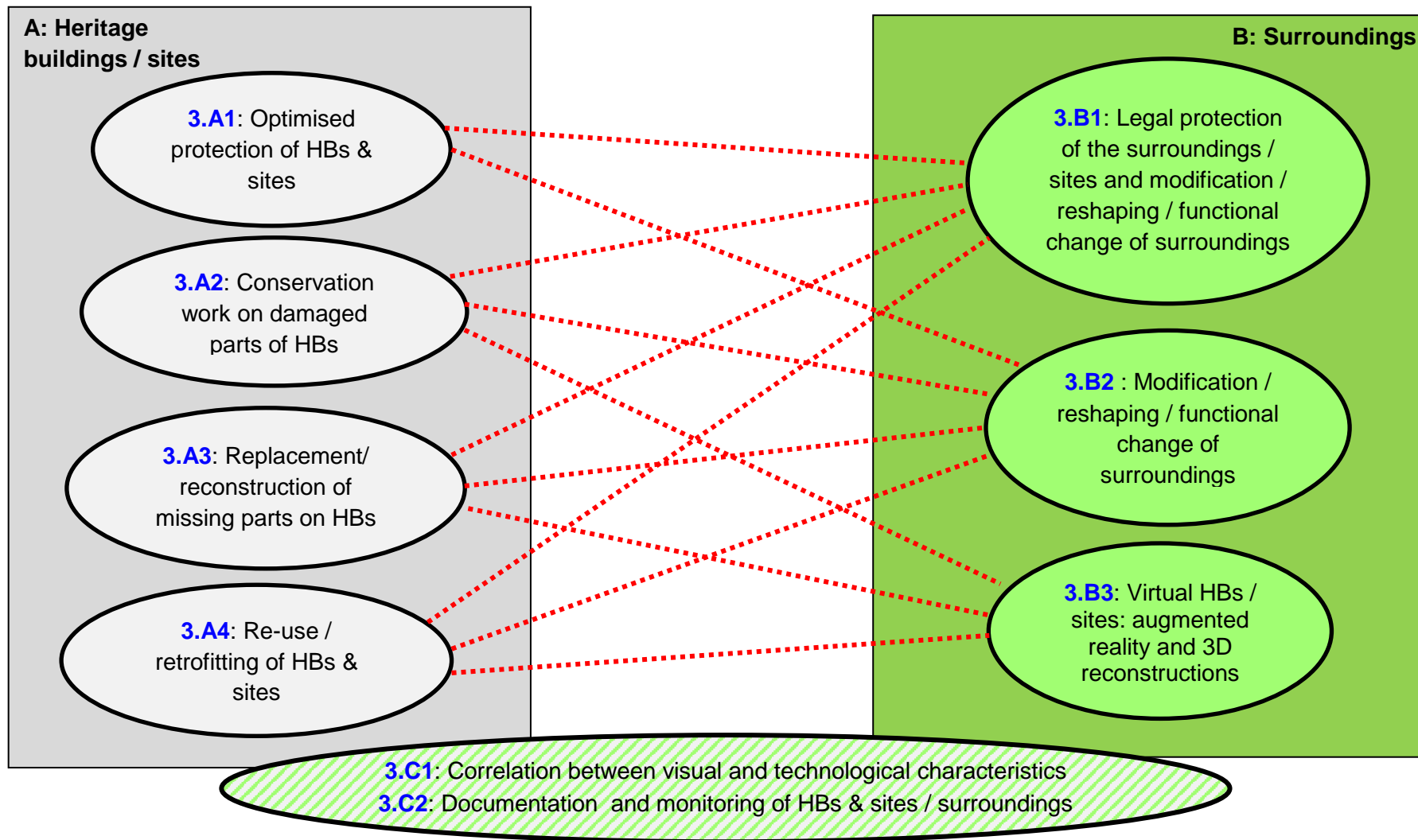


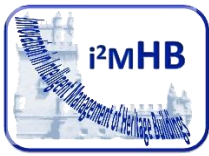
WG3 Integration of HBs in their surroundings

TOPICS of INTEREST



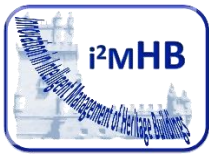
WG3 Integration of HBs in their surroundings
TOPICS of INTEREST INTERCONNECTIONS





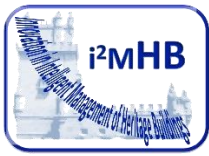
THEME "A" - HERITAGE BUILDINGS / SITES PERSPECTIVE

Topic 3.A1	Optimised protection of HBs & sites
Moderators	Marko Marinkovic (MMK - RS) & Alice Tavares Costa (ATC - PT)
Contributors	Ogen Nevin Cocen (ONC – TK), Carla Cruz (CCR – PT), Anne-Cathrine Flyen (ACF-NO), Cecilie Flyen (CFL-NO), Ilze Irbe (IIR - LV), Miljenko Jurkovic (MJU - HR), Maria Leus (MLE - BE), Anna Lobovikov-Katz (ALK - IL), Marko Marinkovic (MMK - RS), Luisa Migliorati (LMI - I), Veronika Shendova (VSH - MK), Alice Tavares Costa (ATC - PT)
Description	<p><u>Objective:</u> guidelines (national, regional and municipal) for the optimised protection of existing HBs in their surroundings</p> <ul style="list-style-type: none"> - Protection (including political strategies) and prevention of risks against natural hazards (ACF, CFL) and climate change (ONC): earthquakes (MMK), flooding (ATC) and associated events + lasting effects: lightning, heavy rains, fire, sea salts, etc. - Protection (including political strategies) and prevention of risks associated with major infrastructure work for territorial development: construction of new roads, dams, high voltage power lines installations, power generation plants installations (wind turbines, etc.). (CCR) - Protection (including political strategies) and prevention of risks against demographic change (due to migration move, etc. the social, economic and demographic characteristics of the users / inhabitants change). (ONC) - Protection (including political strategies) and prevention of risks against technological (man-made) hazards: vandalism, armed conflicts, gas explosion, bomb threats etc. (VSH) - Protection and prevention of risks against neglect: biodegradation. (IIR) - <u>Cross-topic with WG4:</u> Education of society for protection of HBs and the importance of protection of their surroundings. (ALK)



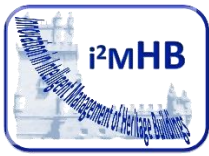
Topic 3.A2	Conservation work on damaged parts of HBs
Moderators	Luisa Migliorati (LMI - I) & Christian Degrigny (CDE - FR)
Contributors	Paola Borgarino (PBO – I), Maria Bostenaru (MBO – RO), Carla Cruz (CCR – PT), Christian Degrigny (CDE - FR), Anne-Cathrine Flyen (ACF - NO), Emanuela Giancola (EGI – I), Miljenko Jurkovic (MJU - HR), Anna Lobovikov-Katz (ALK - IL), Maris Mandel (MMD - EE), Marko Marinkovic (MMK – RS), Luisa Migliorati (LMI - I), Juliette Rollier (JRO – FR), Todorka Samardzioska (TSA - MK), Alice Tavares Costa (ATC - PT), Piero Tiano (PTI - I)
Description	<p><u>Objective:</u> guidelines for the integration of conservation interventions on HBs in their surroundings. Values and aesthetics of materials. Challenges of replacing original materials, etc. (MMD)</p> <ul style="list-style-type: none"> - Legibility and invasiveness of conservation work towards the surroundings. (CDE, MJU, MMK, PTI) - Use of appropriate conservation materials that match well aesthetically and technologically with preserved parts of HBs and its surroundings and that ensure adequate reversibility of the intervention performed. (MBO, CCR, CDE, ACF, MJU, ALK, MMK, TSA, PTI)

Topic 3.A3	Replacement / reconstruction of missing parts on HBs
Moderators	Christian Degrigny (CDE – FR) & Shirley Cefai (SCE – MT)
Contributors	Ogen Nevin Cocen (ONC – TK), Maria Bostenaru (MBO – RO), Shirley Cefai (SCE – MT), Christian Degrigny (CDE – FR), Anne-Cathrine Flyen (ACF - NO), Miljenko Jurkovic (MJU - HR), Anna Lobovikov-Katz (ALK - IL), Luisa Migliorati (LMI - I), Juliette Rollier (JRO – FR), Todorka Samardzioska (TSA - MK)
Description	<p><u>Objective:</u> guidelines for the integration of new constructions with original parts in their surroundings. (ONC, ACF, MJU)</p> <p>It includes modern and invasive materials (artistic or/and political gesture, etc.) that might make the restored part a “piece of art” (MBO – fibre reinforced polymers).</p> <p>The correlation between geometry and material (including colour and texture) of replacements and their perception in larger context, - as component of the surroundings. (ALK)</p>



Topic 3.A4	Re-use / retrofitting of HBs & sites
Moderators	Marko Marinkovic (MMK - RS) & Shirley Cefai (SCE – MT)
Contributors	Ogen Nevin Cocen (ONC – TK), Maria Bostenaru (MBO – RO), Shirley Cefai (SCE – MT), Carla Cruz (CCR – PT), Christian Degriigny (CDE – FR), Anne-Cathrine Flyen (ACF - NO), Cecilie Flyen (CFL - NO), Emanuela Giancola (EGI – I), Miljenko Jurkovic (MJU - HR), Anna Lobovikov-Katz (ALK - IL), Marko Marinkovic (MMK – RS), Luisa Migliorati (LMI - I), Enrique Romero-Cadaval (ERC - ES), Todorka Samardzioska (TSA - MK), Veronika Shendova (VSH - MK), Alice Tavares Costa (ATC - PT), Margareta Turkalj Podmanicki (MTP – HR)
Description	<p><u>Objective:</u> impact on the surroundings of bringing HBs back to their original function or of changing their original function. (OCN, MJU)</p> <p>Integration of retrofitting of HBs structures in their surroundings (VSH):</p> <ul style="list-style-type: none"> - Defining the need for retrofitting - present vs. demand HB structural safety and stability (MBO, MMK), - Retrofitting principles - extension of interventions (MBO, MMK), - Advanced engineering materials issue (MBO), - Authenticity of architectural image versus modern technologies: spatial architectural compatibility of reuse technologies (both interior and exterior). (ALK) <p>Sustainability of the retrofitted HB (TSA), guarantying HB stability (drainage systems, etc.), accessibility and attraction to visitors (insulation, illumination, heating or cooling). (ERC)</p> <p>Creation of effective tools to improve heritage investment's efficiency, improving energy efficiency (ACF, CFL, TSA): integration of renewable resources, as photovoltaic (ERC), replacement of original materials¹ by more energy efficient ones and low carbon emission of the HB. (ACF, CFL, TSA) Management of efficiency point (analysing, designing, developing or testing energy management systems - EMS). (ERC)</p>

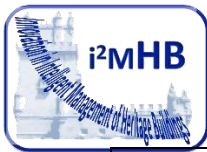
¹ This type of action can call again into question the authenticity of own heritage value, for what would be, in these cases, preferred to resort to compensation of poor efficiency of the original materials and not replacing them. (CCR)



THEME "B" – SURROUNDINGS PERSPECTIVE

Topic 3.B1	Legal protection of the surroundings and modification / reshaping / functional change of surroundings
Moderators	Alice Tavares Costa (ATC - PT)
Contributors	Carla Cruz (CCR – PT), Paola Borgarino (PBO – I), Carla Cruz (CCR – PT), Christian Degriigny (CDE – FR), Ilze Irbe (IIR - LV), Miljenko Jurkovic (MJU - HR), Maris Mandel (MMD - EE), Alice Tavares Costa (ATC - PT)
Description	<p><u>Objective:</u> guidelines (national, regional and municipal) for the optimised protection of the surroundings of HBs and decision making on functional change of surroundings better fitting the HB (MJU)</p> <p>Without legal protection, the surroundings can be amputated and reused by promoters that will disfigure the site and HBs around.</p> <p>This protection should be incorporated in instruments and land management mechanisms and ensure monitoring of conditions and management of the surrounding areas (preferably established as buffer zones). (CCR)</p> <p>Experiences of the actual implementation of laws.</p> <p>As regards the modification / reshaping / functional change of surroundings:</p> <ul style="list-style-type: none"> - Lack of maintenance might lead to side effects: problem of bio development on buildings / sites. (IIR) - Topography of surroundings and HBs visual protection - Change of the surroundings might occur with time. Their reshaping could improve the legibility of HBs. Integration of HBs in architectural ensembles during their renovation work? (MMD) <p>Design of safeguard plans with guidelines for maintaining / modification of surrounding areas (buffer zones).</p>

Topic 3.B2	Highlighting of HBs
Moderators	Christian Degriigny (CDE – FR)
Contributors	Marinella Arena (MAR - I), Christian Degriigny (CDE - FR), José Eloy Hortal Muñoz (URJC - ES), Miljenko Jurkovic (MJU - HR), Maria Leus (MLE - BE), Juliette Rollier (JRO – FR), Enrique Romero-Cadaval (ERC - ES), Stella Sylaiou (SSY - EL), Margareta Turkalj Podmanicki (MTP – HR)
Description	<p>At different levels:</p> <p><u>On site:</u></p> <ul style="list-style-type: none"> - Information panels well positioned and not too invasive: particularly on ruins, with contact names of locals that can provide basic information on the site. (MJU, SSY) - Understanding and visually presenting architectural values by means of illumination. - Scientific colouring of HBs. - Virtual animation (movies) and enhanced/augmented reality (touch tablets): surroundings reconstructed virtually in cities or industrial areas; 3D reconstruction of external and internal elements with/without

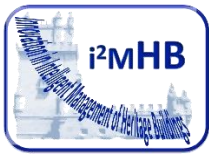


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	<p>original decorations. Benefits vs limitations (philosophy, technology, ethical conservation issues). (CDE, JRO, SSY)</p> <p><u>From the distance:</u></p> <ul style="list-style-type: none"> - Illumination: to attract the attention of possible visitors (MAR, ERC). - "Drawing the border" with illumination: distinction between the site and the surrounding (if needed); correction of geometrical damage to the original surrounding through compatible illumination approach. - Information panels that are well positioned and not too invasive. (MAR, CDE, MJU) <p>Influence of the location of the site (urban / countryside): transport to the site? (MJU)</p> <p>Energy and illumination control (ERC)</p> <p>Prospective position: the use of technology to anticipate and visualize sites to visit (visual simulations, geomatics, geographic information systems, etc.) (SSY).</p>
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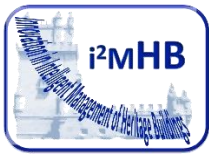
Topic 3.B3	Virtual HBs / sites: augmented reality and 3D reconstructions
Moderators	Margareta Turkalj Podmanicki (MTP – HR) & José Eloy Hortal Muñoz (URJC - ES)
Contributors	Christian Degrigny (CDE - FR)
Description	<p><u>Objective:</u></p> <ul style="list-style-type: none"> - Possibilities of AR in conservation of HB as interpretive media (education, entertainment...) - Guidelines for historical authenticity (contribution to the debate on the level of restoration to carry out) - Advantages, challenges and risks in AR and 3D reconstruction usage - Types of methods (storytelling, interactive maps, 3D reconstructions, 3D animations, documentary...) and platforms to use (smartphones, tablets, smart tables, AR glasses, holograms...) - Recommendations to define when is better to use AR or other ICT tool (as 3D reconstructions) related with HB and sites (when to use it and when not; how to use it (alone or with other interpretive and presentation methods; moderate usage – risk of technology overpowering HB).



THEME "C" – COMBINED PERSPECTIVES

Topic 3.C1	Correlation between visual and technological characteristics
Moderators	Anna Lobovikov-Katz (ALK – IL)
Contributors	Christian Degrigny (CDE – FR), Anna Lobovikov-Katz (ALK – IL), Margareta Turkalj Podmanicki (MTP – HR)
Description	<p><u>Objective:</u> technological and conservation aspects versus urban appearance and aesthetical-architectural characteristics of HBs and their surroundings;</p> <ul style="list-style-type: none"> - Connecting between the "macro" (urban context, surrounding) and the "micro" (building parts, elements). - Perception of HB and their surroundings by general public; perception of success of reuse projects. - The "new" versus the "old" in re-shaping HB and their surroundings – international principles and local conservation tradition.

Topic 3.C2	Documentation and monitoring of HBs & sites / surroundings
Moderators	Petros Patias (PPA - EL)
Contributors	Gumersindo Bueno Benito (GBB - ES), Shirley Cefai (SCE – MT), Carla Cruz (CCR – PT), Christian Degrigny (CDE - FR), Emanuela Giancola (EGI – I), Anna Lobovikov-Katz (ALK - IL), Petros Patias (PPA - EL), Juliette Rollier (JRO – FR), Stella Sylaiou (SSY - EL), Rebeka Vital (RVI – IL)
Description	<p><u>Objective:</u> research on how both documentation and monitoring help to support the preventive conservation and control of the restored parts of the buildings as well as the surroundings.</p> <p>Imaging techniques are traditional tools for the monitoring process.</p> <ul style="list-style-type: none"> - Use of Geographic Information System to register the existing / changes, especially in very enlarged surrounding areas. (CCR) - Imaging techniques to document these changes. (PPA) <p><u>Cross-topic with WG4:</u> involvement of the general public in monitoring processes. (ALK)</p>



Cross-topics with WG4

- Impact of local agencies / politicians / owners on HBs / surroundings: legal protection of HBs / surroundings, issue of fund raisings
- Impact of local population / visitors on HBs / surroundings (SSY)
 - Education (of society for protection of HBs and the importance of protection of their surroundings, as well (ALK))
 - Involvement of local population in the management of HBs and events as well as the monitoring process (ALK)
 - Relation with tourists
- Feedback of local population / visitors (SSY)
 - highlighting : can be counterproductive
 - Innovation without education
 - Innovation without respect of HBs / surroundings
 - Innovation without authenticity