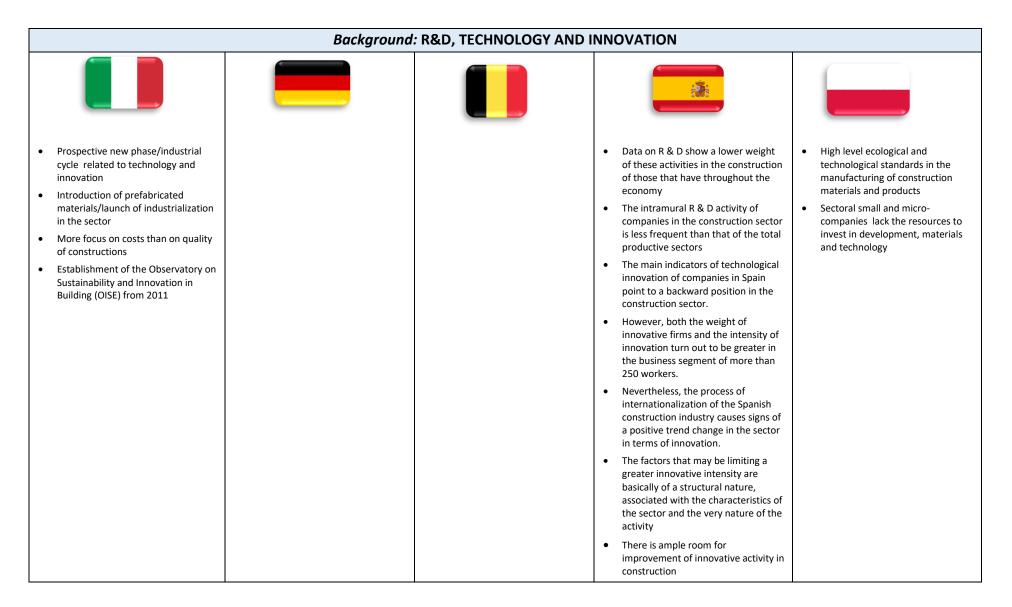
 Graat importance of the adoption of responsibilities Long-term strategies (from EnG 1976) Long-term strategies (from EnG 1976) Confecter strategies (from EnG 1976) Construction EnG 1976) Construction EnG 1976) Construction EnG 1976) Construction Eng 1976 Construction Eng 1976) Construction Subilings Condination of buildings and their Cost on the deng 1976) Construction Eng 1976) Construction Subility 1976) Construction Subility 2070) Construction Subil
Current decate on raising standards and introducing penalties due to the effects of building heating on air pollution

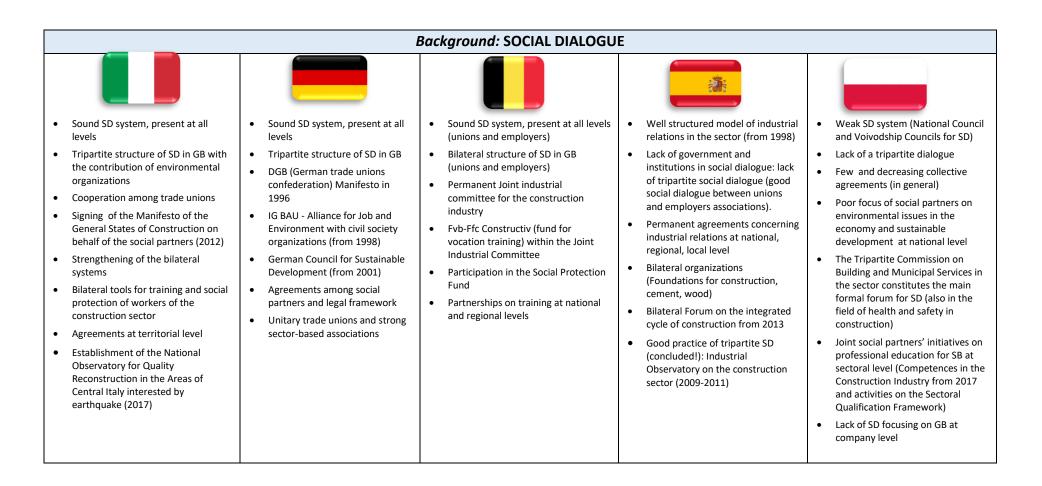
Background: INSTITUTIONAL LEVEL/LAWS AND PUBLIC STRATEGIES									
CONVERGENCES	DIVERGENCES								
 Great importance of the adoption of EU Directives and policies Focus on EE/energy saving issues Use of incentives (I-B- S) Importance of certification systems (I-G-B-S-P) Diversification at regional and local levels (I-B–S-G) Integrated approach to sustainable building (not only EE, but also urban regeneration, territorial safety and planning) in I - G – S fosters a smart city approach 	 Long/short term strategies Policies about specific issues Poor coordination (I-S) in relationship between national and local policies Training and qualification policies Decreasing tendency in the use of incentives in G 								

	Вас	kground: ECONOMY AND EMPLOYMENT	
 Decrease in employment, production, profit, companies (with a light recovery in 2015) Fragmentation of companies Very small dimension of the companies (96% with <10 employees) Growth of undeclared work Stability of the technology systems in buildings Reduction of the effects of the crisis due to EE interventions Need for new competencies Lack of high skilled workers Inadequate educational/training 	 Stable sector, with light increases (also prospective) Construction sector as agent of economic growth Prevalence of small and micro enterprises (75%) Shortage of skilled construction workers and high-seniority Workers shortage in near future Need for the certification of workers' competences Poor appeal of the sector for workers Low attention to clients (information and culture) 	 Greatest potential for EE in existing buildings (high consumption: 72% more than EU-25 average) Greater interest in GB on behalf of installation companies Prevalence of small and micro enterprises Competitiveness among producers of construction materials based on prices instead of innovation Poor aptitude towards innovation Poor demand in the market for quality in goods and services Introduction of automation and prefabricated materials in the market for quality in goods and services Introduction of automation and prefabricated materials in the market for quality in goods Introduction of automation and prefabricated materials in the market and higher salaries 	ements in and coal single-family uctions than s carried out with no velopment tor (96% vyees) fied stable labor
		Init outcome of a second state of a second state of a second state of the second	stable labor s abroad) ers in other ants in the) nability issues orkers gained

Background: ECONOMY AN	ID EMPLOYMENT
CONVERGENCES	DIVERGENCES
 Effects of the economic crisis (P) – slow recovery (I-S-B) 	Stable sector only in Germany
 More opportunities on interventions on existing buildings (I-S-B) 	 Beginning of new industrialization process (B-I-S)
 Prospective growth of the sector within the sustainability framework (I-G-S-B) 	 200.00 Skilled workers migrated in other MSs, 260.000 qualified workers (mainly from Ukraina) arrived in P
 Majority of small/micro companies/fragmentation (I-G-B-S-P) 	
 Irregular/undeclared work in I - G and S (as a consequence of crisis) 	
 More focus of the companies on costs instead of on quality of goods/services (I-G-B) due to rare demand services (S) 	
 Diversified markets for different groups of companies (eg. technological systems in I-B) 	
 Introduction of innovation (I – G - B); notwithstanding the larger decrease in technological innovation (-75%) S exhibits feeble signs of positive change in the sector 	
 Lack of skilled workers (G-B-I-S-P) 	
 Ongoing surveys and identification of profiles and innovative competences (I-B-G-S) 	
 Need for upgrading workers' competences (I-B-S- G-P) 	



Background: R&D, TECHNOLO	GY AND INNOVATION
CONVERGENCES	DIVERGENCES
 Small dimension of companies as a limit to innovation (S-I-P) Orientation towards industrialization (I) and innovation (S) 	 High level ecological and technological standards in the manufacturing of construction materials and products (P) Establishment of the Observatory on Sustainability and Innovation in Building (OISE) from 2011 (I)



kground: SOCIAL DIALOGUE	
CONVERGENCES	DIVERGENCES
 Sound SD system, present at all levels (I-G-B-S) Tripartite (I – G) or bilateral (B) structure of SD in GB Permanent agreements Partnerships among actors belonging to different sectors (eg.: industrial or waste management sectors) 	 DIVERGENCES Weak SD system and poor trilateral dialogue on GB in P Lack of institutions in SD in GB in I, B and especially S (with the exception of G) Long tradition of SD with civil society organizations (green movement in politics) in Germany Each country presents partially different structures
 Wide range of joint organizations involving SD actors (in Forum, observatories, committees, foundations) in different activities (for instance in training) Cohesion among social partners in the sector (G – S – B) - only more recently in I 	 Establishment of the National Observatory for Quality Reconstruction in the Areas of Central Italy interested by earthquake (2017) - I

Social dialogue	Social dialogue and green building – INSTITUTIONAL AND POLICIES LEVEL								
		P				P		P	
Adoption of European policies Management of territorial emergencies (securing activities) Energetic policies Incentives	Lack of a defined position on GB on behalf of government Lack of framework policies Lack of coordination between National and European policies on GB Lack of	National Energy Acts Certification Compliance to federal laws	Decrease of incentives	Adoption of European policies	Diversification among regions Discontinuity of the incentives	Adoption of European policies (PEF) National Strategy and Law on sustainable economy	Lack of coordination among the actors of the policies Lack of national policies Lack of an integrated approach to urban regeneration/resou rce management	Government actions implementing European regulations	Small amount of significant economic incentives Law propensity to invest in EE in buildings
	coordination between National and local policies on GB Lack of medium and long-term planning Discontinuity of incentives								

Social dialogue and green building – INSTITUTIONAL AND POLICIES LEVEL								
CONVERGENCES	DIVERGENCES							
 Laws and policies at different levels Limited coordination among different levels Main driver represented by compliance with EU policies Lack of National policies directly fostering SC in I-S-B (present in G) Discontinuity of incentives (I-B) - orientation towards reducing some incentives (G -S) – small amount of significant economic incentives (P) 	 Different needs depending on the nature of the building stocks (old/new, level of insulation, etc.) and on environmental factors (eg: earthquake safety in I) Germany presents greater coordination among different PA levels and exhibits a driving effect compared with EU Significance of building securing issues in Italy (due to recent earthquake events) 							

	Social dialogue and green building – ECONOMY AND EMPLOYMENT								
D	L	D	L	D	L	D	L	D	L
Requirements for territorial security CSR Information on good practices Training and certification of companies Compliance with European policies European Funds Practices of technological and organizational innovation in the sector	Fragmentation of the sector Need for workers' qualification Inadequacy of current training offer Poor information on BIM models	Energy saving demands Increase in legal requirements Certification European Qualification Framework Technological R&D on heating/ventilatio n/EE/lighting/ren ewable energy sources BAU trade Fair (knowledge management/diss emination) Further enhancement of the educational dual system	Knowledge gap among companies and workers Demand for partial building restructuring Economic interests in potential conflict with environmental ones Poor reliability of the consultancy market for the sector	Identification of new competences for updated profiles Need to match "performance standards" instead of "best efforts" Awareness raising activities targeting executors and contractors Symbolic role of public commitment Need for more qualification and continuous employability of workers	Rapidity of changes in competence needs Poor focus on the operational dimension of training activities delivered through partnerships	Past investments in innovation Focus on LCA applied to environmental certification of goods and services Public Private Partnership (PPP)	Decrease in public investments Lack of credit opportunities Fragmentation of companies Poor demand on behalf of clients Willingness to invest only if "requested" Exit of qualified workers from the market Poor awareness about opportunities for GB delivered by BIM models	Common willingness of social partners to reduce the informal economy Common interest of social partners in reorganizing the labor- market Common interest of social partners in filling the gap in the demand of high- qualified specialists Joint social partners' initiatives on professional education for SB at sectoral level (Competences in the Construction Industry from 2017 and activities on the Sectoral Qualification Framework)	Fragmented structure of the construction industry

Social dialogue and green building – ECONOMY AND EMPLOYMENT							
	DIVERGENCES						
Drivers: -Compliance to legal framework	 In some cases there is a capitalization of past innovations R&D activities: poor relations among key-actors (I-S-P); ongoing relations 						
-Availability to innovate -Certifications (I-G-S)	 (G - B) Sound and long-term dual system (education/companies) in G 						
-Demand for more qualifications and competences of workers (I-B-P) Barriers:	 Low attitude to undertake integrated restructuring interventions in buildings due to costs (G – S) 						
-Fragmentation/small dimension of companies (I-S-P) - Lack of competences among workers and companies	• Information available on good practices in SD on GB (I)						
- Lack of competences among workers and companies	 Lack of information on BIM model (I-S) Further enhancement of the educational dual system in G 						

	Social dialogue and green building – SOCIAL DIALOGUE								
D	L	D	L	D	L	D	L	D	L
Involvement of national actors on international debate on GE and sustainable development Tripartite alliance initiatives fostering sustainable development Dialogue on the building sector Relevance of training activities in SD in GB Participation in European projects Local initiatives on: training, information, buildings qualification, urban planning and regeneration Bilateral entities Workplace safety and health issues	Fragmented and de- structured building sector (lack of a critical mass) Absence of a common position among employers associations North/South economic divide Detachment and lack of information on SD/GB between national and local level Poor participation of green companies in controversies between social partners Lack of focus on health and safety in GB Difficulty in considering white collars as a target group of policies Difficulty to involve other sectors in SD on GB	DGB Manifesto (1996) Representative ness of trade union and employers organizations Social partners' common vision on some key issues Tripartite initiatives at regional/local level Relevance of training activities in SD in GB Relevance of health and safety at work	Lack of a shared definition of green workplaces and green economy Few companies having workers' councils (thus nurturing the poor appeal of the sector) Difficulty to involve other sectors in SD on GB	Tripartite initiatives at regional/local level Partnerships to involve different key- actors in the field of green competences Different sectoral knowledge centres to work on sustainable building Relevance of training activities in SD on GB	Lack of arenas/tables/platfor ms to debate among SD actors and other professionals of the enlarged supply chain Difficulty in considering white collars as a target group of policies	Good performance of SD in the construction sector Agreements among employers and trade unions (2014 Oficemen – MCA UGT and FECOMA CCOO) Industrial Observatory on the sector (good experience of already concluded tripartite SD)	Lack of state commitment (currently absent) on SD on SC Lack of coordination among employers and trade unions with the different levels of PA Lack of platforms/tables/a renas for debate among PA actors Feeble bonds among universities, technical institutes and companies (in general)	The Tripartite Commission on Building and Municipal Services in the sector as main formal forum for SD Common willingness of social partners to reduce the informal market, to reorganize the labor-market and to supply for high qualified specialists in the sector	The law is not conducive to conclude binding collective bargaining Fragmentation of the industry Low level of organization of employers and trade unions in small firms Poor representativeness of employers' organizations Few workers associated to trade unions
European corporate committees									

Social dialogue and green b	uilding – SOCIAL DIALOGUE
CONVERGENCES	DIVERGENCES
Partnerships among different actors	Poor representativeness of employers' organizations (P)
Structured forms of interaction	 Diffuculties in considering white collars a target group of policies (I-B)
 Need to focus on health and safety in GB (G-B-I) Lack of arenas to debate with government/institutions (I-B-S.P) 	
 Relevance of training activities in SD on GB (I-G-B-P) 	
Crucial role of regional/local initiatives accompanying national ones	

Social dialogue and green building – SOCIAL AND CULTURAL ASPECTS									
D	L	D	L	D	L	D	L	D	L
	Poor knowledge and information on real advantages	Long time presence of a strong green movement Clients' expectations on competences of the workers of the sector	Limited local and immediate visibility of the consequences of not- sustainable behaviors				Workers polarization (high e low skilled) Scarce linguistic competences of migrant workers Myths/false representations about construction materials Poor environmental awareness about potentialities for SC of BIM models		Low awareness on advantages among owners and builders
							Poor general ecological awareness		

Social dialogue and green building – SOCIAL AND CULTURAL ASPECTS								
CONVERGENCES	DIVERGENCES							
• Poor information among citizens on the concrete advantages of GB (I-S-P)	 Long time presence of a strong green movement in G 							