

	SUBDIMENSIONS	STARTING	MODERATE	ADVANCED	ROBUST	VERTEBRATE
LEADERSHIP & GOVERNANCE	Municipality, cross-sectorial and multi-governance collaboration (L1)	(L1S1) Establish a working team responsible for resilience issues in the city (L1S2) Integrate resilience into visions, policies and strategies for city development plans	(L1M1) Establish a resilience department or committee and a cross-departmental coordination board and procedures (L1M2) Align, integrate and connect the resilience action plan with regional plans (L1M3) Adopt climate change preventive actions (L1M4) Establish a target for city-wide emissions reduction (L1M5) Promote equality of access to services and basic infrastructure to vulnerable sector of society	(L1A1) Align, integrate and connect the resilience action plan with national plans (L1A2) Develop a plan for a multi-level governance approach involving the municipal, regional and national levels of governance	(L1R1) Align, integrate and connect the city resilience plan with regional, national and international resilience management guidelines	(L1T1) Support the development of other city resilience plans aligned, integrated and connected with regional, national and international resilience management guidelines
	Legislation development and refinement (L2)		(L2M1) Develop a white paper about multi-level governance approach	(L2A1) Develop a legislative framework for stakeholders involved in the implementation of the resilience action plan (L2A2) Conduct certification processes to achieve existing standards		(L2T1) Encourage all the involved agents, including citizens, to provide feedback about the resilience development plans and policies (L2T2) Contribute to the development of standards on resilience guidelines and policies
	Learning culture (learning and dissemination) (L3)	(L3S1) Develop a strategy to create a resilience culture	(L3M1) Promoting a culture of resilience	(L3A1) Formalize the learning process and institutionalize regular debriefing meetings	(L3R1) Create a learning city	(L3T1) Promote leadership for knowledge transferring and sharing among global cities, regions and nations (L3T2) Develop formal procedures to assess the effectiveness of the learning process
	Resilience action plan development (L4)	(L4S1) Identify the city requirements regarding the resilience process	(L4M1) Develop a resilience action plan to respond to shocks and long term stresses	(L4A1) Integrate lessons identified from past events into the resilience action plan (L4A2) Develop leading indicators for assessing the performance of the resilience action plan	(L4R1) Assess the efficiency of the resilience action plan periodically in order to continuously improve it	
PREPAREDNESS	Diagnosis and Assessment (P1)	(P1S1) Assess and manage a full range of risks (P1S2) List and prioritize critical services and assets (P1S3) List existing plans and response mechanisms guidelines for shocks and stresses	(P1M1) Take account of interdependencies when assessing and managing risk (P1M2) Review best practices to deal with shocks and stresses used in different sectors and other cities (P1M3) Analyse lessons identified from past shocks	(P1A1) Use the Risk Systemicity Questionnaire to assess and manage risks (P1A1) Assess scenarios of shocks and their cascading effects	(P1R1) Undertake regular and long-term risk assessments using the Risk Systemicity Questionnaire	(P1T1) Engage a wide range of relevant stakeholders in the risk management process (P1T2) Assess the value added by CITY contributions to the resilience of other CITIES
	Education and Training (P2)	(P2S1) Conduct training and arrange emergency drills with the emergency teams and critical infrastructure providers (P2S2) Inform citizens of volunteering opportunities in the local community (P2S3) Develop a common understanding of the resilience approach among stakeholders	(P2M1) Conduct training and arrange emergency drills including volunteers	(P2A1) Provide training for citizens and public and private companies (P2A2) Conduct emergency drills at national level (P2A3) Develop education programs in schools about the resilience action plan (P2A4) Assess and refine the training programs	(P2R1) Establish a strong network of volunteers (P2R2) Conduct frequent joint training exercises between European cities	(P2T1) Develop training plans in cooperation with other CITIES (P2T2) Develop training activities for other CITIES (P2T3) Engage self-organization of involved agents to improve the development of the resilience of the CITY
INFRASTRUCTURE & RESOURCES	Reliability of Cis and their interdependences (I1)	(I1S1) Develop cooperation/ collaboration agreements with critical infrastructure providers (I1S2) Develop plans to monitor critical infrastructure functionality (I1S3) Develop contingency plans for critical infrastructures	(I1M1) Identify interdependencies of critical services at local level (I1M2) Develop periodical maintenance procedures for critical infrastructures (I1M3) Develop measures to increase critical infrastructure redundancy and reliability (I1M4) Implement monitoring systems for identifying risk shocks and long term stresses (I1M5) Carry out audits for critical infrastructure providers	(I1A1) Develop flexibility measures		(I1T1) Establish the redundancy level of the infrastructure of the CITY (I1T2) Encourage the continuous improvement of policies, to take advantage of any shock and stress to bounce forward and improve or re-design (I1T3) Apply big data approaches to analyse the information obtained
	Resources to build up resilience and to response (I2)	(I2S1) Assess current initiatives and funding opportunities for the development of resilience (I2S2) Develop a list of the current response physical resources available (I2S3) Deploy a disaster relief fund for emergencies	(I2M1) Integrate the resilience action plan into the local government budget (I2M2) Promote resources /tool sharing among critical infrastructure providers within a region during crises	(I2A1) Promote and provide incentives to stakeholders to invest in resilience (I2A2) Implement centralised control of coordination of critical resources and activities during a crisis (I2A3) Encourage companies to have appropriate insurance coverage and develop business resilience plans (I2A4) Support citizens and private sector initiatives that contribute to building resilience at local levels e.g. via grants (I2A5) Incentivate the private sector to encourage the adoption of energy efficiency standards in new buildings	(I2R1) Promote and provide incentives to stakeholders for investment in R&D&I projects regarding resilience (I2R2) Encourage citizens to have appropriate insurance coverage and develop household resilience plans (I2R3) Monitor an effective use of resources to ensure the resilience building process performance	(I2T1) Assess the improvement and innovation effects to the resilience building process. (I2T2) Monitor the insurance level of citizens and companies
COOPERATION	Development of partnerships with city stakeholders (C1)	(C1S1) Map relevant stakeholders to develop the resilience action plan (C1S2) Develop a public website with emergency informatio	(C1M1) Develop a stakeholder engagement plan defining its roles and responsibilities (C1M2) Develop an internal communication platform for sharing information with different municipal departments and emergency services	(C1A1) Align the objectives of the different stakeholders and set up a common understanding of resilience (C1A2) Develop formal partnerships between academic and scientific entities to improve the resilience building process (C1A3) Undertake public consultations to receive feedback on the resilience action plan (C1A4) Develop a public communication platform to interact with stakeholders	(C1R1) Widen collaborative networks with stakeholders to reflect on and make decisions about the progress of the city resilience. (C1R2) Arrange multi-stakeholder debriefing meetings (C1R3) Develop a public platform to enhance sharing among city stakeholders.	(C1T1) Engage self-organization of cooperation among all stakeholders involved in resilience development (C1T2) Involve all stakeholders in the learning process
	Involvement in resilience networks of cities (C2)		(C2M1) Establish alliances with cities facing similar risks	(C2A1) Join a major network of European cities (C2A2) Develop formal partnerships with regional stakeholders	(C2R1) Participate proactively in regional, national and international networks to promote initiatives, exchange experiences and learning	(C2T1) Active involvement of local authority and stakeholders in networks (local, national, European and global) (C2T2) Encourage stakeholders to present their experience concerning the resilience building process as reference for other CITIES