The technological and operational implementation of the CO3 disruptive technologies will take place to the pilots, following up the set of each pilot requirements, while continuous upgrade of the technical development will be included in the task supporting the pilot executions. Hence, the overall expected outputs according to the initial work plans includes progress on the technological deployment of CO3 solution and components in accordance to each pilot support, execution and location-specific requirements, organizational procedures for the three pilot sites including stakeholders mapping, local communities engagement plans, workshops, recruiting material etc. and also, a know-how on the organizational operations, lessons learned from CO3 technologies testing and mitigation for potential risks.

Main focus areas

The pilot partners, have focused on the formulation of the use cases based on the social needs of each location and as the output of the co-creational activities, namely workshops, round-tables, on site visits, and internal meetings. Upon the identification and analysis of the use-cases for each pilot site, the relevant technical specifications have been identified and a list of technical requirements was elaborated. Pilot partners have initiated to implement the engagement plans, and actions are ongoing for the preparation of the actual pilot implementation in all three cities. The COVID-19 emergency has introduced obstacles in the continuation of the engagement plans and preparation activities since the recruitment processes include many visits and steps with personal contact. Pilot partners have adopted any preparational activity online if and where possible, however this was feasible only for a small number of engagement action points.

Athens (DAEM) followed up mainly on the results of the co-creation workshops that took place and highlighted 2 fields of interest: the social distribution of quality food excess and the open debate on the potential re-usability of empty buildings. Hence, DAEM's first identified and planned use-case for the Athens scenario is the Groceries on-hold service that is planned to take place in flea markets or other market locations within Athens with the involvement of customers, producers of the products that own benches in the market and beneficiaries for the consumption of the service that are citizens with social and financial needs. The Law obstacles of crypto-currency legislation in Greece was tackled through the identification of a suitable technical solution for the donations and Coopboxes will be purchased for the pilot implementation. In total the use case will exploit the CO3 digital wallet and AR modules. The second use-case for the Athens scenario refers to mapping of empty buildings of the city by citizens and the proposition of potential uses with the active involvement of public city employees in the area of urban planning. More specifically, 3D objects will be placed by groups of mappers in the urban environment proposing several services.

Citta di Torino (CTO) pilot focuses on the augmented commoning concept aiming to execute scenarios in the buildings of Case del Quartiere in order to enhance the cooperation of the local community on tackling diverse purposes and real local needs. The main objective is to experiment and assess the CO3 technologies in the field of co-management of services organized and offered in CdQ. Thus the co-creational activities of WP1 with local beneficiaries resulted in 4 use cases: augmented contents, prepaid card with the creation of the House's coin in each CdQ, co-management of volunteering activities and citizen participation in the planning of the yearly program through the use of coins for pre-registration and voting tokens.

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The pilot partners, have focused on the formulation of the use cases based on the social needs of each location.

The augmented content use case enables visitors of the CdQ to access the digital space of CO3 in augmented areas in each CdQ and use features such as tokens, timetables, maintenance chores to be done by volunteers, events programmes uploaded by managers as well as images, videos and other multimedia contents or tokens to access courses and events at a discounted rate uploaded by the organizers to each Casa. Users can interact with contents in the augmented area in order to share information, get discounts for courses or activities or visualize volunteering activities to be performed, and also create and drop in the augmented space their own content. The second use case aims at creating a coin for each Casa that will facilitate the consumption of services, dropping of AR contents and the participation in the commoning of each building. The digital wallet enables services such as the registration to courses, payments for activities etc. The use case of co-management of volunteering activities foresees that each proposed activity is translated into the necessary timeframe, divided in tasks and relevant type and number of tokens that the volunteer will get as a reward or certificate of the volunteering activity completed. Finally, the last use case focuses on the co-design of the CdQ yearly programme, empowering groups of citizens to vote for proposed activities and classes through the CO3 technology. The amount of tokens contributes to identification of the most requested activities and consequently in the co-organization of the CdQ annual program.
COVID emergency and the consequent lock down of CdQ forced a postponement of these activities, whose impact would have been greatly diminished if organized online instead of in person.

Following up on the active role and diverse activities and projects of **IRI in the area of Plaine Commune**, the CO3 pilot in France is aligned with existing local interest and needs. Urban modeling, Contributive Clinic and Blockchain Knowledge Registry. The main objective of the Contributive Clinic use-case refers to the development of a social network to enhance knowledge and consultation to parents on several areas of interest. The parents' social network will be a geolocated social network empowering online dialogue between parents, public health institutions and parents' associations on the territory. Also, the Contributive Clinic use case will include a digital detox benchmark for the evaluation of AR and other CO3 technologies. The second use case of Urban Modelling foresees the active engagement of stakeholders in order to pose their suggestions for the reorganization, redesign and planning of their territory via the progressive use of CO3 and other technologies. The two main objectives are to, firstly, develop a shared knowledge and practice of the technologies that are disrupting the building sector, boosting the employability of the students from Pleine Commune, and secondly to experiment what is possible to do for opening the deliberative and decision processes via digital technology. This project has been signed by the Rectorat the Créteil (the academic institution of the territory) and will be implemented in various middle- and high-schools. The final use-case focuses on the creation at a local level of a Blockchain Knowledge Registry for the contributory income accreditation. This use of the blockchain could be positively disruptive for the French bureaucracy "intermittents du spectacle" scheme.

The engagement plans of the three use cases include diverse reported activities for the recruitment of the relevant actors and beneficiaries.