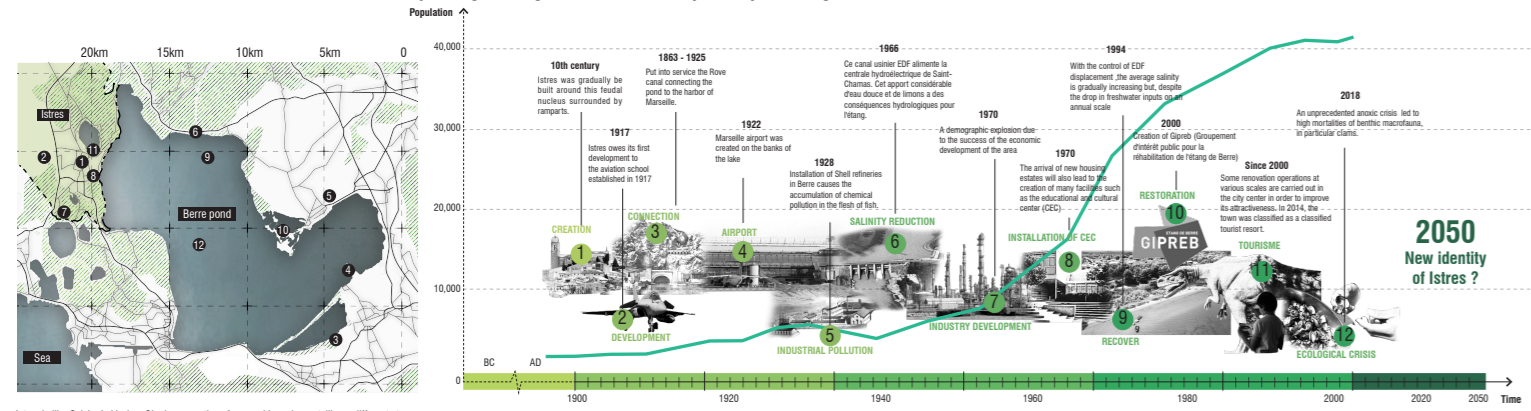


ECO-(Re)START

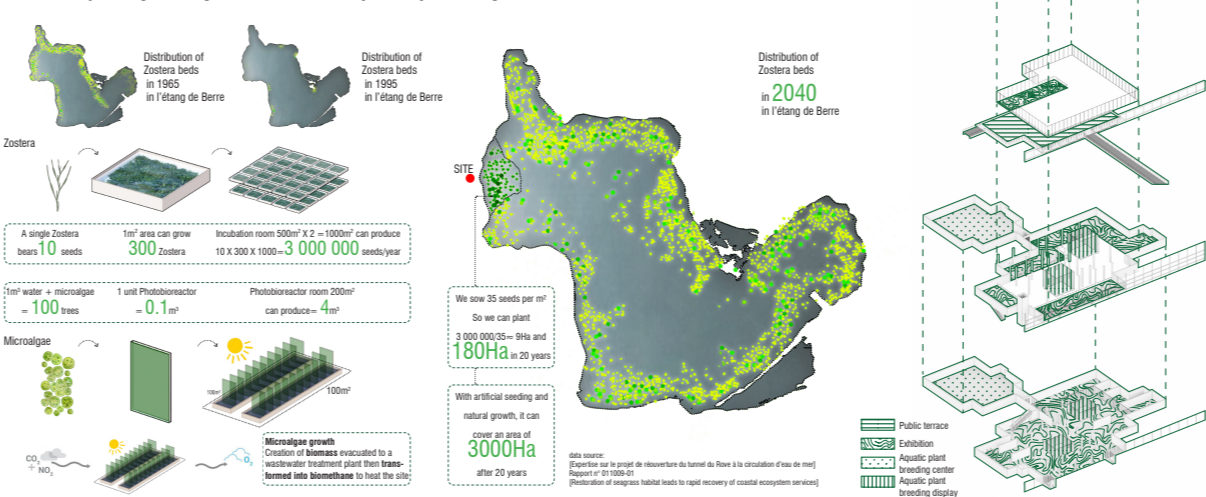
Re-Activate CEC and the city through ecological restoration and public space reorganization



Istres is like Calvino's Venice. She has countless faces, with each one telling a different story. She is a historic city. The urban fabric expanded by the fortress-like city center divides the urban space, making the public space and green space fragmented. Thus, they are unable to be integrated into a site that attracts citizens. She is a modern city. The rapid development of modern industry in the process of urban development has brought pollution and destruction to Lake Berre. The architectural form established to adapt to the surge in population is relatively simple, and public space cannot meet the requirements of a high-density population. She is a city of the future. In the era of urban expansion of Marseille, it is necessary to use clearer sustainable urban planning strategies to take a charm different from other places, so as to increase the city's attractiveness, develop tourism, and give the city's economy.

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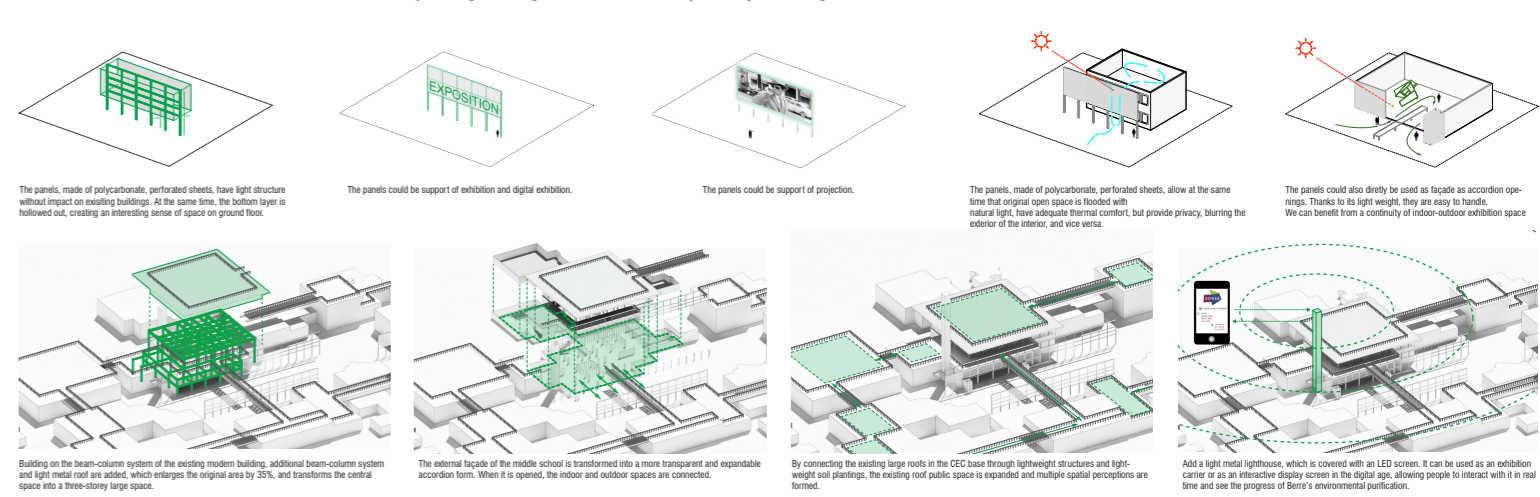


However, the charm of CEC is not as good as before. It has been gradually forgotten due to fragmented public space, inconsistent building facades and colors, lack of accessibility, lack of waterfront space connection, and the passage of time. The digital age is an opportunity. It allows every city to stand on the same starting line again. Cities that can embrace the digital age more quickly would become homes for young people. How can the site carry the memories of a new generation in the future, become a place where young people are willing to stay, and be the core of activating the city in the digital age?

The answer lies in ecology. Given an increasingly severe issue in the process of globalization (also as an issue that can drive the tourism industry in the city where the site is located), we recommend that the site be used as a demonstration site to improve the water quality of the lagoon. Besides, it should serve as an educational demonstration and public display. Thus, the site, and even the city, could become a demonstration of ecological improvement in South France. Research has revealed that the planting of Zosteria and microalgae in a small area can effectively improve the oxygen content of the lagoon and the air environment in the city. Therefore, we ask the building of the middle school to be reduced as a cultivation base for Zosteria and microalgae needed to improve the ecology of the lagoon, as well as a corresponding exhibition and education demonstration center. The newly added digital totem enables the site to be visible at the far end of the city and digitally connected to people's mobile phones. As a result, people can see the progress of ecological improvement in real-time and even interact, and it would become a beacon of ecological improvement demonstration.

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The panels, made of polycarbonate, perforated sheets, allow light structure without impact on existing buildings. At the same time, the bottom layer is hollowed out, creating an interesting sense of space on ground floor.

The panels could support exhibition and digital exhibition.

The panels could be support of projection.

The panels, made of polycarbonate, perforated sheets, allow at the same time that original open space is flooded with natural light, have adequate thermal comfort, but provide privacy, blurring the exterior of the interior, and vice versa.

The panels could also directly be used as facade as outdoor exhibition space. Thanks to its light weight, they are easy to handle. We can benefit from a continuity of indoor-outdoor exhibition space.

Building on the beam-column system of the existing modern building, additional beam-column system and light metal roof are added, which enlarges the original area by 20%, and transforms the central space into a three-story large space.

The external facade of the middle school is transformed into a more transparent and expandable accordion form. When it is opened, the indoor and outdoor spaces are connected.

By connecting the existing large roofs in the CEC base through lightweight structures and lightweight steel roof, the existing roof public space is expanded and multiple spatial perceptions are formed.

Add a light metal lightbox, which is covered with an LED screen. It can be used as an exhibition carrier or as an interactive display screen in the digital age, allowing people to interact with it in real time and the progress of Berre's environmental restoration.

