

Artelia: a leader in engineering for sustainable cities

With the “*Rêve de scènes urbaines*” (dream of urban landscapes) project carried out in the *Plaine Commune* urban area, in the north-east suburbs of Paris, Artelia is reasserting its leadership in the field of engineering for sustainable cities. It has also opened its Santiago Deseado simulator to the general public, thereby offering a 3D trip to the future and a decision-aid tool for all local councillors.

As of 25 April 2016, all internet users can access the following page:

<http://www.arteliagroup.com/fr/le-demonstrateur-de-la-ville-durable-un-voyage-en-3d-vers-le-futur>, where they can discover the Santiago de Chile of today and what it could become tomorrow.

The Santiago Deseado simulator was created in response to an invitation to tender on the theme of “better urban living thanks to the French model”, launched by the French Ministry of Foreign Trade and the Ministry of Finance. It was funded by the FASEP (fund for studies and assistance to the private sector).

Artelia, lead firm in the consortium, worked in cooperation with its partners, Veolia, Architecture Studio, Arte Charpentier, Siradel and Vinci, to consolidate this interactive 3D tool that creates a structured representation of an area’s sustainable development.

Making the demonstrator available online ties in with an approach aiming to raise awareness in regard to the process of building a sustainable city, based on a visionary project implemented for the capital of Chile, Santiago, and that can be adapted and applied to other regions, in particular major cities or urban areas.

Indeed, Santiago Des3aDo is an innovative decision-aid tool that promotes and helps the export of French know-how in fields such as urban development, architecture, services and technology. It is used for developing an urban area in compliance with all the aspects of sustainability: mobility, sanitation, water, waste, energy, telecommunication, etc.

The user may choose three itineraries providing structured information concerning 11 key elements that characterise sustainable cities, such as urban density, nature in the urban environment, connectivity, mobility, etc. The first itinerary takes stock of present conditions in the city, the second one presents what the city could look like in the future, and the third one suggests solutions for bringing it about: the contact details of the best French professionals specialising in sustainable development. The tool is adapted to a vision of the urban fabric on different scales: building, neighbourhood, and city.

“With our teams, we started out by listing thousands of indicators supplied by the municipality of Santiago, and then we compared them with the data collected in Paris, Grenoble and Buenos Aires. The simulator does not assess the city’s performance levels, but it compares them with other situations in order to provide local councillors with their own frames of reference”, underlines Charline Froitier, Project Manager at Artelia Ville & Transport.

This is how Carolina Toha, Mayor of Santiago, Chile, came to use the professional version of the simulator to present her Sustainable Development policy during COP 21 on 8 December 2015. Incidentally, she has just published an interactive version of the scan produced by the simulator as well as all the indicator sheets on the city’s public website, accessible here:

<http://www.observatoriosantiago.cl/?cat=42.../...>

From now on, this decision-aid system can be used by local councillors to develop a responsible policy and pave the way for participatory projects involving councillors and citizens, aiming to design smart cities that incorporate new digital technologies and innovations in different sectors while remaining in line with sustainable development principles.

With the “*Rêve de scènes urbaines*” project, the winner of the “industrial simulator for a sustainable city” call for tenders launched by the French Ministry of the Environment, Energy and the Sea, Artelia – in partnership with Vinci and Veolia – is confirming its leadership in the field of innovation at the service of energy transition and the climate.

We hope you enjoy your visit using Artelia’s Santiago Deseado simulator.

A few words about Artelia:

Artelia is an international, multidisciplinary consultancy, engineering and project management group specialising in the sectors of building construction, infrastructure, water and the environment. With 3500 employees and turnover of €405m in 2015, Artelia is one of France’s leading groups in the sector. Internationally, the group operates 42 offices in Europe, Africa, the Middle East, Asia and South America. Artelia is 97% owned by its managers and employees.

The audit of certified group entities, carried out by AFAQ in June 2015, enabled us to renew our ISO 9001, OHSAS 18001 and ISO 14001 certifications for a new 3-year cycle.

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