DATAACITY

BY NUMA

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DataCity is an open innovation program aiming to solve the cities’ issues using data and technology.

Building smart collaborations between the public and private sector, DataCity brings together corporations, startups and local authorities to co-design and implement solutions for more inclusive and livable cities.

Over a 9 month program, the participants go from a challenge definition phase to the co-creation of concrete tech solutions, designed to solve main cities’ challenges for a sustainable future.
Cities are the cause, the biggest victim and the best hope we have globally when we think about climate change. At the same time, plenty of citizens, startups and large companies are poised to tackle or already tackling this global, all-encompassing issue. They are the living proof that Government and Public Institutions cannot provide all of the answers. This is the reason NUMA decided to focus its efforts and its ecosystem on solving the global problems of 2030, including climate Change.

With this mission in mind, I challenged stakeholders of the urban ecosystem to make tomorrow’s cities today’s reality! A smart city is often pictured as a futuristic or virtual city; through DataCity, we demonstrate that the smart city may already be our daily lives. In a few short weeks, the program succeeded in finding solutions to challenges in the fields of energy, logistics, mobility and urban development. These solutions are the result of NUMA’s methodology: start small, experiment under real conditions, learn and iterate fast. DataCity Paris is proof that shaping the future does indeed begin today.

Building on these success stories, NUMA is expanding DataCity internationally. With a track record in Paris and Casablanca, I am very pleased to announce the international launch of DataCity: the largest open-innovation program for tomorrow’s cities, led by NUMA, in partnership with C40!

Marie Vorgan Le Barzic, CEO, NUMA
The C40 Cities Climate Leadership Group, a network of 91 of the world’s greatest cities committed to tackling climate change, teamed up with the innovative tech firm NUMA to launch DataCity in cities around the world.

The urgency of the climate crisis means that city leaders must use every tool available to them to tackle the threat, including data. Innovation is already underway in cities worldwide, helping to tackle climate change. Paris and London have recently announced plans to make data available on the real world emission of new cars, to help consumers make informed choices about their impact on air pollution and climate change. In Rio de Janeiro, online tools allow citizens to propose where new sustainable infrastructure such as bike lanes are needed. Through DataCity, the private sector and leading cities are working together to find solutions to urgent climate challenges.

DataCity’ was conceived in Paris and every year the project allows us to move a little faster on key issues for Paris but also for other cities around the world. [...] The alliance of NUMA and C40 will help the great cities of the world to accelerate their green transformation. As Antoine de Saint-Exupery wrote: As far as the future is concerned, it is not a question of foreseeing it, but of making it possible”.

Anne Hidalgo,
Mayor of Paris and Chair of C40
DATACITY AROUND THE WORLD
The use of data analytics is essential to our aim of developing a vibrant digital economy and a Smart Nation, and helps our nation solve big challenges, such as in improving resource optimisation and environmental sustainability. The Infocomm Media Development Authority is pleased to support the Datacity World programme. We encourage collaboration and data sharing amongst public and private sector players to create more robust datasets and enable more impactful solutions for our challenges.

- Mr Tan Kiat How,
Chief Executive - IMDA, Singapore
A smart city ideally should look to be citizen friendly and help the city to grow in a sustainable manner. [...] However, for this to happen, it is the responsibility of the Government and the citizens to work in unison and develop products/solutions which will introduce efficient/economic and sustainable ways of doing things. The meaning of smart cities is not fulfilled unless there is greener or eco friendly ways of doing things.

- Mr. Priyank Kharge -
  Minister for IT/BT and Tourism, Government of Karnataka
DataCity must enhance Barcelona’s vision of data as a common good. Data can be seen as a city common infrastructure, an enabler by social and economic actors, from where to solve City challenges.

Francesca Bria – Chief Technology and Digital Innovation Officer,
Barcelona City Council
THE PROGRAM
PROGRAM MILESTONES

2013
Launch of Data Shaker, a 3 months program designed with SNCF to support innovative projects from employees, citizens and startups.

2014
NUMA launches a 6 months initiative with AFP (French news agency) to identify new opportunities and build prototypes with startups and media actors.

2015
With a solid track record, NUMA won the call for tender initiated by Paris City to run an open innovation program on smart city topics. *DataCity is born*

2016
*DataCity is launched in Casablanca. Paris starts its 2nd edition*

DataCity aims for greater impact onboarding more cities worldwide.

2017
DataCity is going global with the C40 Climate Leadership Group. Singapore and Bangalore join the program.
URBAN ISSUES COVERED BY DATACITY

ENERGY

WASTE & WATER MANAGEMENT

MOBILITY & LOGISTICS

PUBLIC SAFETY

BUILDING & HOUSING
The success of the collaboration lies in the ability of the program to align each stakeholder’s interests and create value for everyone.
9 MONTHS, FROM PROBLEM DEFINITION TO A Viable SOLUTION

- Use a multi-partner approach to accelerate innovation
- Focus on solving concrete problems validated by cities
  - Be user-centric
- Use time-boxing to accelerate prototyping and time-to-market
- Obtain concrete results and references in 9 months

**DEFINE**
Define challenges with corporate sponsors and local governments to be addressed by startups
- 1 month

**SELECT**
Select the best international and local startups
- 2 months

**EXPERIMENT**
Field experimentation with startups, sponsors and local governments
- 3 months

**ACCELERATE & SCALE**
Launch and accelerate the business model to solve the challenge internationally
- 3 months
CASE STUDY #1: STREET LIGHTING

Challenge

How to provide intelligent lighting in the street of Paris by analysing urban travel data?

Quantmetry teamed up with Dataiku to model urban travels at night, crossing anonymised and aggregated data from SFR’s mobile network, and urban streets and travel data coming from the open database of the city of Paris. They demonstrated the possibility to adapt street lighting according to urban travels. A web app was developed, to enable the visualisation of off-peak times when the lights can be dimmed, as well as cost and energy savings related to the dimming.

Impact and results

Savings ranging from 3% to 10% on the city’s annual electricity bill for street lighting representing on average 1 million euros per year. Scalable to the 199,000 street lights in Paris and to any street light system in the world using mobile data, without installing any specific sensors or equipment.
CASE STUDY #2: WASTE COLLECTION

Challenge

How to notify users, building caretakers and companies handling waste bins exactly when the waste collection truck will be coming by?

Craft.ai used its artificial intelligence models to learn from these millions of data and forecasts waste collection times at each address. SUEZ’s platform Monservicedechets.com was then used to register the end user’s forecasted collection times and send sms notifications in case of any delays. The solution and text message notification services have been activated in the 14th arrondissement and adopted by dozens of beta users.

Impact and results

All bins are now equipped with a microchip that records the exact waste collection times. Prediction interval reduced to 2 hours with a 95% certainty instead of an average 4 hour interval.
KEY METRICS FOR PARIS AND CASABLANCA EDITIONS

100+
Private and public data sets used in Paris and Casablanca editions

20,000+
Startups identified in our worldwide database

200+
City issues identified

20+
Corporate partners involved

> 700
Applications

1600
Participants
OUR PARTNERS
Data needs to be the inspiration and driving force behind all urban development programs. For too long, cities implemented large scale projects without having a true understanding of the underlying social, economic, political and environmental factors which define communities. DataCity not only puts data at the center, the program advocates for Open Data, which is near and dear to CARTO and our Community.

Tyler Bird, Community Team Lead, Carto

OpenDataSoft makes data sharing easy for all stakeholders of a smart city. After several successful experimentations in France, we are convinced OpenDataSoft has a role to play as a key enabler of tomorrow’s smart cities. Through this partnership with DataCity and NUMA we want to expand our role and our impact internationally.

Jean-Marc Lazard, CEO, OpenDataSoft

Data City is in line with our strategic vision: facilitate the transition towards smarter cities through the emergence of a data-centric ecosystem. DataCity improves the efficiency of a collaborative approach through closer relations between startups and corporations. The program will also help us promote our innovations and represent a great opportunity to meet new actors, in both smart city and tech industries.

Yannis Ghazouani, data scientist, Dataiku
ABOUT NUMA
DataCity is an open innovation program designed and owned by NUMA, the leading french innovation network operating for more than 15 years in Paris and around the world.

NUMA’s mission is to empower tech entrepreneurs to solve the global challenges of 2030. NUMA helps entrepreneurs, corporations, institutions and communities through trainings, events, acceleration programs and innovation hubs around the world.

Now present in 8 countries, NUMA extends its model to different horizons where digital entrepreneurship is booming, offering programs such as DataCity to local startups and corporations.
QUESTIONS & INQUIRIES

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