



a c t u a l

# smartcity

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Interview  
with Karuna  
Gopal,  
the global  
woman

José Petisco,  
CEO of  
Cisco Spain:  
"innovation  
is the way to  
prosperity"

The battle of  
community  
networks,  
by Ignacio  
del Castillo



# A BETTER WORLD





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## editorial

**E**l CEO español de la multinacional japonesa NEC, Jaime Serrano, habló de antropología en las enriquecedoras jornadas tecnológicas celebradas en Santander, a principios del pasado mes de septiembre. Efectivamente, Serrano dividió a la humanidad en tres nuevas "razas", más allá de color, religión y localización geográfica. Una división que, sin duda, tiene una profundidad trascendental en nuestros tiempos.

Ahora ya sólo podemos pertenecer a tres grupos "étnicos": Analfabetos digitales (nacidos antes de 1950 y con ningún o escaso acceso a las nuevas tecnologías); inmigrantes digitales (nacidos entre 1950 y 1985, con una adaptación esforzada pero no siempre aceptable) y nativos digitales, nacidos después de 1985 y plenamente identificados con los esta nueva era, tal y como demuestra el escalofriante dato aportado por la multinacional japonesa, sobre preferencias de los niños de 4 años de aquel país como regalo: una tablet, por encima de cualquier otra cosa.

No es una segmentación peregrina; muy al contrario refleja dos conceptos intrínsecos a este siglo XXI, en el que la sociedad de la información están protagonizando la tercera revolución industrial en la que todos nosotros tenemos la obligación, tal como reza nuestra portada, de dejar un mundo mejor a las nuevas generaciones. Esos dos conceptos son universalidad y transversalidad, que se repiten constantemente en cuanto nos asomamos a cualquier aspecto de una Smart City.

Y hablando de un mundo mejor, ha sido para nosotros un privilegio haber podido traer hasta nuestra páginas a Karuna Gopal, la mujer global y un referente de extraordinario calado, en su empeño de consolidar una transformación social y urbana, en una país tan emergente como India.

Finalmente, anunciar de forma oficial la creación del Smart City Business Institute, una plataforma que nace precisamente desde la universalidad y la transversalidad y que se va a convertir en la principal plataforma de oportunidades de negocio del mundo Smart.





## Entrevistas

**8-11**

**Karuna Gopal**

President of  
Futuristic Cities



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**José Manuel  
Petisco**

Director General  
de Cisco España

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**Lluís Gómez**

Director  
Internacional  
de la Smart City  
Expo World  
Congress





# KARUNA GOPAL



## President of Futuristic Cities

LÉALO EN ESPAÑOL



By Jorge González-Páramo Echevarría

"We at FFC are completely convinced that cities can be REVITALIZED only if there are more hearts that resonate to the city's needs, more minds that meditate on the solutions and more hands that shape the contours of development"

## The global woman

**I**t is an honor for SC Actual Smart City to be able to display the views of one of the world's women involved in the development of cities. Karuna Gopal is a great example and role to follow for Indians and for the rest of the planet, where she has also implemented projects, always lead by a heart determined to change the world

### **SCASC.- What is the Vision and Mission of Foundation for Futuristic Cities?**

**KG.-** We have a compelling vision "Vibrant Cities for a Vibrant Economy". It helps us innovate constantly to make Indian Cities Sustainable and Global. City Visioning, City Development Strategies, E-Governance Implementation, Big Data Analytics, Knowledge Products for Urban Transformation are our forte

### **SCASC.- How did your organization contribute to making Indian cities livable? Tell us about one landmark initiative...**

**KG.-** Based on the Theme 'Vibrant Cities for Vibrant Economy', we at FFC wanted to create an ecosystem to accelerate 'Public Private People Partnership' for livable cities. We knew that Indian cities needed more than just city development plans and capital investments. JNNURM (Jawaharlal Nehru National Renewal Mission, a flagship program of Government of India, launched by the Prime Minister in 2005) did inject adrenaline into the Indian urban system, but this mammoth programme was not adequately propped by collective action.

In September 2009, we launched 'Citizens for City' in Hyderabad- a contest that sought strategies for transforming the city.

We pioneered this initiative and piloted it in Hyderabad. As it is scalable and replicable, other Indian cities can use the format. We wanted every corporate house to align its CSR goals towards city development. I thought it is a wonderful way to demonstrate their commitment to the triple bottomline while making their host cities livable. In fact, we have recently published a knowledge product and guidance document, SCULPT YOUR CITY. If asked to pick any five areas in urban development that need to be changed for the country's betterment, what would your choice be, and why?

**1** Indian Cities need Visions! We need city visions not just aster plans. Master plans are mere spatial plans. Visions should necessarily articulate economic development, environmental and equity outcomes for a city. They have to be collective visions.

**2** Cities have to be co-created: I strongly believe that we have to co-create cities in India. The government, the private sector and civil society together have to architect their growth. All world cities were built on a healthy partnership between the government and citizens. Cities become vulnerable if citizens stay out of the game. Tell me, can any

**K**aruna Gopal is the President of Foundation for Futuristic Cities. FFC has been influencing Urban Transformation in India through Policy Advisory services - based on the Vision "Vibrant Cities for a Vibrant Economy" has been working towards making Indian Cities Sustainable and Global.

**C**ity Branding, Institutional Reforms, E-Governance Implementation, developing Knowledge Products for Urban Transformation being it's forte , FFC worked with several JNNURM (a flagship program of GOI, launched by the Prime Minister in 2005 ) Mission cities in India . Ms Gopal was associated with the city development and reform projects of DFID (UK), USAID and the World Bank

**C**urrently her organization is exploring application of BIG DATA Analytics for Sustainable Cities - An IT evangelist Karuna explored application of Smart Technologies with key officials of Federal Departments in USA and leaders from 15 other countries.

**S**he lectures at top business schools like ISB , IIM (A), taught courses to policy makers and senior IAS officers at ASCI / WBI (World Bank Institute) and CGG( Center for Good Governance) - A sought after Keynote speaker / Chair at Conferences, she has been invited to address conferences in Paris, Singapore, Shanghai and Sweden including the top global forum in France popularly known as "DAVOS for WOMEN" .

**P**oet, Artist and a prolific writer whose articles are incorporated into Parliamentary Documentation of Lok Sabha, Ms. Gopal is the recipient of "Woman Leader" and "Woman Innovator" Awards...

**S**he is on the illustrious panel of International Jury for Intelligent City Awards ( Intelligent Community Forum - New York) . She is also a member of the official team forging a Sister State Partnership between Washington State and AP.

**M**s. Gopal is a member of the Chief Minister's Advisory Council of Andhra Pradesh. An alumnus of US Department of State, she participated in a Leadership Program of US Government meant for Foreign Leaders.

business house succeed if the city itself fails?

**3** Infrastructure investments have to be prioritized based on city needs: we need to go beyond mere global approaches for investments or blanket plans for metros.

**4** Technologies have to be leveraged to make Indian cities livable and sustainable: Paris, a technology laggard for years, is a fully wired city now. South Korea's smart city plan is commendable. A small country like Croatia tucked away in Eastern Europe is further ahead of us in technology absorption.

**5** Private investments in water supply and sanitation services: if PPPs are restricted to just swanky airports flyovers and roads, how can we have equitable growth and development?

### **SCASC.- What is Citizens for City?**

**KG.-** We at FFC are completely convinced that cities can be REVITALIZED only if there are more hearts that resonate to the city's needs, more minds that meditate on the solutions and more hands that shape the contours of development.

In September 2009, we launched "Citizens for City" at Hyderabad. We appealed to the citizens of Hyderabad to join us in architecting the city's future. We coaxed them to come forward with their ideas. We cajoled them to contribute strategies. "Let's make Hyderabad a World Class City" - we urged.

Consumed by an overwhelming desire to act we launched "Citizens for City" - a contest that sought strategies for transforming Hyderabad.

### **SCASC.- Why CITIZENS FOR CITY?**

**KG.-** We have conceptualized "Citizens for City" at a time when India is furiously urbanizing. Poised to contribute 70% of the nation's GDP, the promising Indian urban system is paradoxically slipping into urban decay. Versatile but vulnerable, Indian cities are victims of a chaotic and unplanned growth.

We knew that Indian cities needed more than just City Development Plans and Capital Investments. JNNURM (Jawaharlal Nehru National Urban Renewal Mission) did give a jab of adrenalin to the Indian urban system but this mammoth program was not adequately propped by collective action.

### **SCASC.- How was the Journey?**

**KG.-** It was a rough ride to say the least...

Just like in any lofty human endeavor, our optimism was put to test. Calls and mails came, both congratulatory and condescending. Many said that Indian cities were irreparable- we deliberately quarantined pessimism.

Skeptics became sponsors as we went along. But the path taken was not meant to be smooth...

Our journey was punctuated by events that threatened to make our initiative appear irrelevant, impossible and even implausible. Even as we were preparing to launch our initiative, Dr.Y.S. Rajasekhara Reddy the former





# SMART PARKING

- Dr. V. K. Ramesh, Dr. Ravi K. Pongthi, Pooja Chel, Dr. Anshu D. Ravi

## 1. INTRODUCTION

Efficient, safe, secure, and reliable parking solutions are essential for the growth of any city. The current parking system is outdated and inefficient. The need for a smart parking system is evident. The system will be based on the latest technology and will be user-friendly. The system will be able to handle a large number of vehicles and will be able to provide a secure parking environment. The system will be able to handle a large number of vehicles and will be able to provide a secure parking environment.

## 2. PROBLEM STATEMENT

The current parking system is outdated and inefficient. The need for a smart parking system is evident. The system will be based on the latest technology and will be user-friendly. The system will be able to handle a large number of vehicles and will be able to provide a secure parking environment. The system will be able to handle a large number of vehicles and will be able to provide a secure parking environment.

## 3. SOLUTION

The solution is a smart parking system that will be based on the latest technology and will be user-friendly. The system will be able to handle a large number of vehicles and will be able to provide a secure parking environment. The system will be able to handle a large number of vehicles and will be able to provide a secure parking environment.

## 4. IMPLEMENTATION PLAN

The implementation plan is to develop a smart parking system that will be based on the latest technology and will be user-friendly. The system will be able to handle a large number of vehicles and will be able to provide a secure parking environment. The system will be able to handle a large number of vehicles and will be able to provide a secure parking environment.

## 5.1 Overall System Architecture

The figure 1.1 depicts the overall proposed system for the city from a bird's eye view. As clearly depicted and earlier discussed, the city will be split into various zones based on the parking severity and availability. Here, we have created 3 zones namely Zone X, Y and Z respectively.

Each zone comprises various parking infrastructure represented as P1, P2 and so on and other facilities providing parking namely L, J etc. The zone is logically represented by the ZPMs. Each zone will end with a ZPMs, as in ZPMs-X for Zone X. The ZPMs will host parking information status of the zone and supply this information to the CUPED for global access.

The CUPED will be interfaced to all ZPMs present in the city. It will be the one point global reference for the parking information for the city. A consumer who intends to gain parking information, navigation routes or other information, can access it. The consumer is allowed such access either online or through a mobile.

Fig 1.1 Overall System Architecture - A Bird's-Eye View



Chief Minister of Andhra Pradesh passed away in a helicopter crash. Immediately after the launch, our state was ravaged by furious and ferocious floods, and just when we were gaining momentum there came a spate of agitations and bandhs, for state bifurcation. All these unfortunate events and the current state of turbulence in Andhra Pradesh could not stop this “Powerful Vehicle for Change”.

More than 100 organizations participated – Scientists, IT professionals, Business leaders, Professors and Students stepped in as city angels. Winning, it seemed was secondary to the spirit of participation...GE, INFOSYS, Deloitte, ADP, Honeywell, ISRO (Indian Space Research Organization), CDAC (Centre for Development of Advanced Computing), IIIT (International Institute of Information Technology), NIN (National Institute of Nu-

“The sustainability of cities and business are inextricably linked2

“We wanted every corporate house to align its CSR goals towards city development”

trition), ISB (Indian School of Business) are some who adorned the roster...

**SCASC.- What is Sculpt your City?**

**KG.-** It is a knowledge product and a guidance document for co-creating Indian cities. This publication speaks of citizen’s willingness to stop playing critics and their readiness to partner the government for creating livable cities. This publication has 21 strategies to make indian cities livable

It shows a picture of what citizens can do - color it or crop it. Here’s a tool to transform your city –reconfigure it to suit your vision.

The strategies may not match the robustness of technical documents but they are contemporary, topical and fraught with ideas to bridge the last mile connectivity issues that most Indian cities have. The participants may not



## CITY-ZEN

- **Sts. Dunstan & Hyndry**, **Sts. Herman & Frederick**,  
**Sts. Andrew & Hyndry**, **Sts. Vincent & Anthony**

**And I did suffer (Glosses)** under whom rules the sky  
And I found not heaven's air, nor sun of day  
And world of evening. All the sciences of  
life in 1508 the Moon opposed the universal  
engine of St. Vitruvius, and so, under the darkness  
and water globe of Tyndal's and it was he who  
remembered the idea of adding rare water here  
below, namely *Hydrogen* and *Oxygen*  
(Glosses) during the night. Thus, the water sphere  
of Tyndal's was the *Hydrogen* and *Oxygen* of  
Tyndal's and *Oxygen* and *Hydrogen* became inseparably  
united in the whole life of Tyndal's and the  
plan of an immense life, a better one, another  
in the night and morning, a better life of a new  
growth from one water body to the next.

The foundation of the city and its beautiful lake was laid during the Qianlong Khald Dynasty followed by the



**Fig. 4: Map showing the general spread of Hyderabad City and major water bodies (in four major water bodies highlighted)**

With such great history, we believe that it would be a great discovery to our future generations, if we as students do our utmost every effort to save the water holes by developing a Groundwater Model. In a wonderful dream and then developing them has a wonderful discovery of what human endeavor can achieve if's not in the end.

As we embarked on this journey, our objective was to address the following:

\* To separate the stem (or, in seedling pollinist, a 1 cm section).

```

graph LR
    MC[Monitoring cameras] -- Video Streaming --> PS[Private Servers]
    PS --> N[Netizens]
    N --> PS
    PS --> RV[Report violations]
    RV --> GE[Generate e-challans]
    GE --> CF[Collect fine]
    CF -- "% of fine collected" --> N
  
```



A woman with dark hair, wearing a light-colored saree with a green and purple patterned border, is speaking into a microphone. She is standing at a podium, and her hands are visible, gesturing as she speaks. The background is a blue screen displaying a bridge structure.

“The vision  
Vibrant Cities  
for a Vibrant  
Economy helps  
us to innovate  
constantly to  
make Indian Cities  
Sustainable and  
Global”

*You can see more about it [www.futurecities.org](http://www.futurecities.org)*