City as a Platform

Enabler for future cities

Smart technologies in particular can help address some of the challenges of mass urban development by contributing to optimising the use of resources and improving services through better management of supply and demand. Considerable effort has been made to turn our cities into smart cities, but much of this focuses on connecting cities by installing a large number of sensors, cameras and other devices. Today cities have a significant amount of valuable data which is often undervalued and underused, or there is no straightforward way of extracting value from that data. The use of data is focused on optimization of city services for cost reduction and budget savings but we have yet to see the local economy and communities truly leveraging the value of city data and the service infrastructure.

NEC believes that creating a platform that becomes the city brain and opening up opportunities to local communities to utilize city intelligence is a compelling strategy for cities to create a sustainable smarter city. In order to realize this vision, NEC is contributing to cities by providing a city transformation enabler, Cloud City Operation Centre. Cloud City Operation Centre also known as “CCoC” is a software platform which provides data collection, big data storage, intelligent analysis, and eco-system enablers.

Thanks to CCoC, the city is able to:

- Create a horizontal single and real time view of a city status and growth.

  CCoC collects a wide range of IoT data which is set to explosively increase in the next 5 years, as well as Non-IoT data stored in a diverse range of legacy and silo based systems and applications.

- Make effective decisions based on intelligent data.

  CCoC’s data analysis capabilities enables the city to analyse a broader range of data and transform them into intelligent insights which allow the city administration to take decisions to improve peoples daily lives, economic growth and the environment.
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- Rapidly create a new smart service using data and the common functionalities of the platform.
  
  City administrations are able to create a range of smart services re-utilizing data stored and analysed in the CCoC. This enables a city to engage in a lower cost transformation programme leading to a new smarter services in Healthcare, Transport and Waste.

- Contribute to local communities and the economy by enabling private companies and citizens to utilize data.
  
  CCoC provides an enabler which publishes intelligent data for private companies and citizens. They are able to utilize data for their innovation and improving the citizen quality of life, and creating an environment which encourages positive transformation in the city or place. The CCoC is built on open source and NEC has an open philosophy which views the CCoC as a catalyst for collaboration and innovation.

Open Platform

The CCoC platform is based on open source components developed by FIWARE community which is one of the largest communities for smart city and IoT infrastructure implementation. All data exchange happen through an open standard interface which eases complexity for technology partners to connect their systems to the data platform and rapidly develop new services. This accelerates the data acquisition process and enables a city to constantly evolve the city platform through this open and collaborative ecosystem on an ongoing basis.

Local community and economy driven

Many cities today are implementing smart services and its infrastructure. This have been realised by significant technological innovation and today’s city future design is driven by infrastructure’s perspective rather than people, local communities and local economy point of view. We strongly believe that the sustainability and resilience of future cities is driven by the prosperity and well-being of local communities rather than the simple deployment of technology. The CCoC becomes an enabler for Government as a Service and provides the platform a city and its local community to develop and secure that sustainable future.
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