NTT

Together we enable the

connected future

NTT Family

USD 109 bn
in total revenue

150+
years of heritage

310,000
people around the world

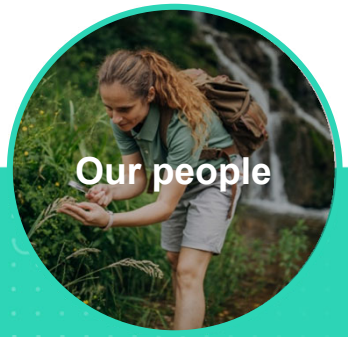
Top 100
global innovator*

*Clarivate Analytics

USD 3.6 billion
average annual investment in R&D over the next 5 years

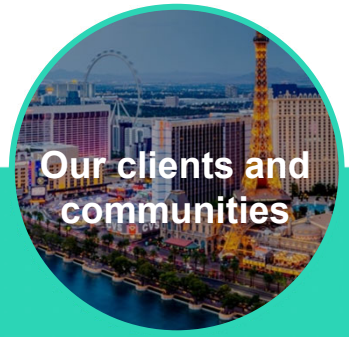
NTT
Together we enable the connected future
Our business will have a sustainable impact on the world
Sustainable business performance
Positive environmental impact
Technology makes the world a better place
Together we do great things

By transforming our clients' businesses, **we transform the world**



Connected Conservation Foundation

Pilot project using the technology expertise of our people reduced rhino poaching by 96% in a private South African game reserve, while educating and uplifting the surrounding communities

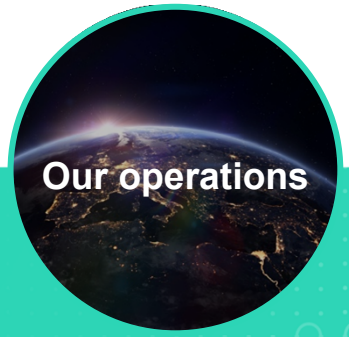


City of Las Vegas

Use of sensors and application of AI and machine learning gives the city access to critical data on which to make informed safety and management decisions

Quantum Neural Network (QNN) consortium

New technology helps businesses use rapid computation, answering large-scale optimization problems in milliseconds while dramatically reducing energy consumption

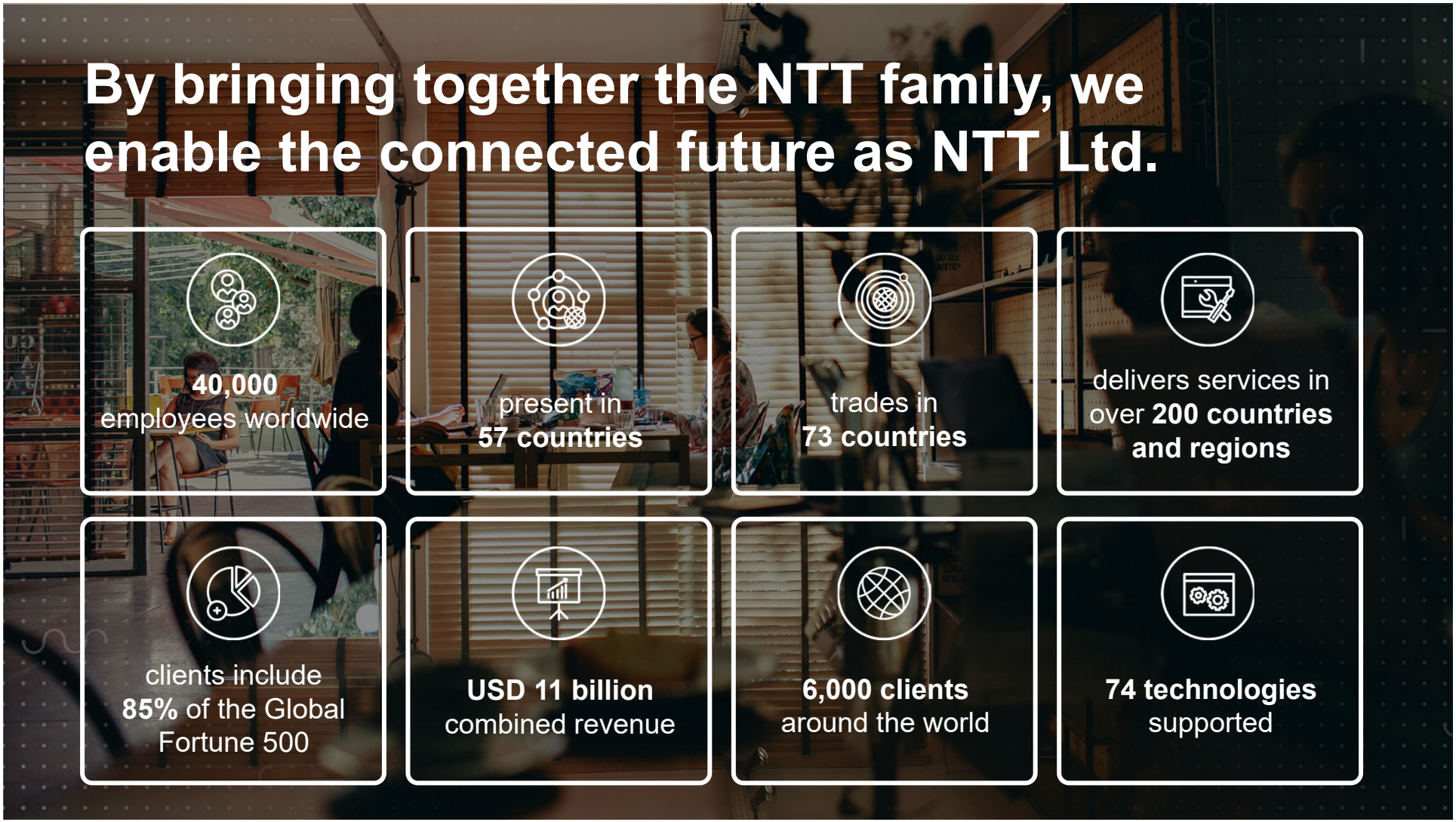


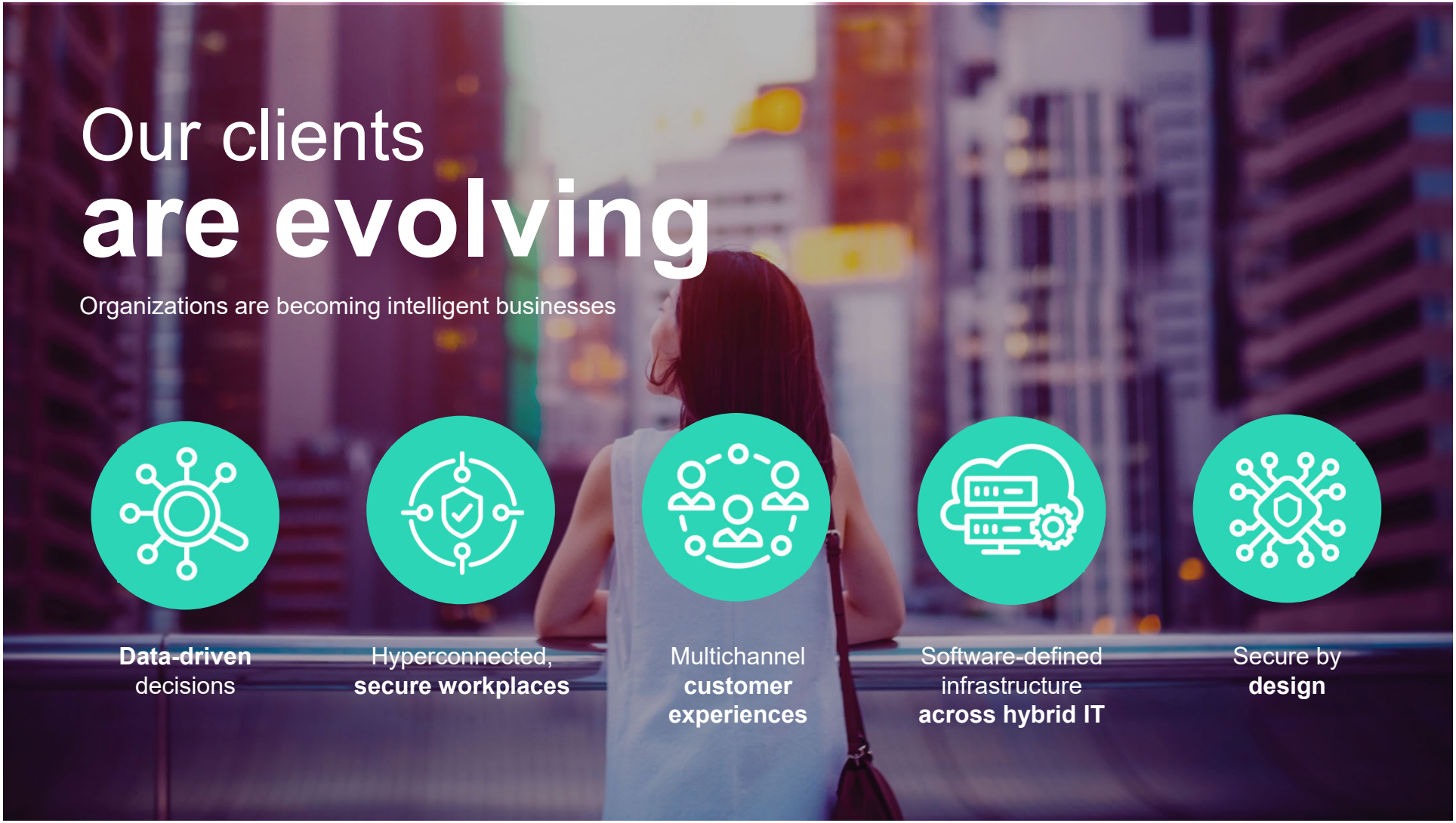
NTT Group's power consumption

We're driving year-on-year reductions in the power usage of every data transmission. This means we're well-positioned to help organizations transform their own data power consumption to meet sustainability goals.

Largest integration in the ICT sector in **2019**

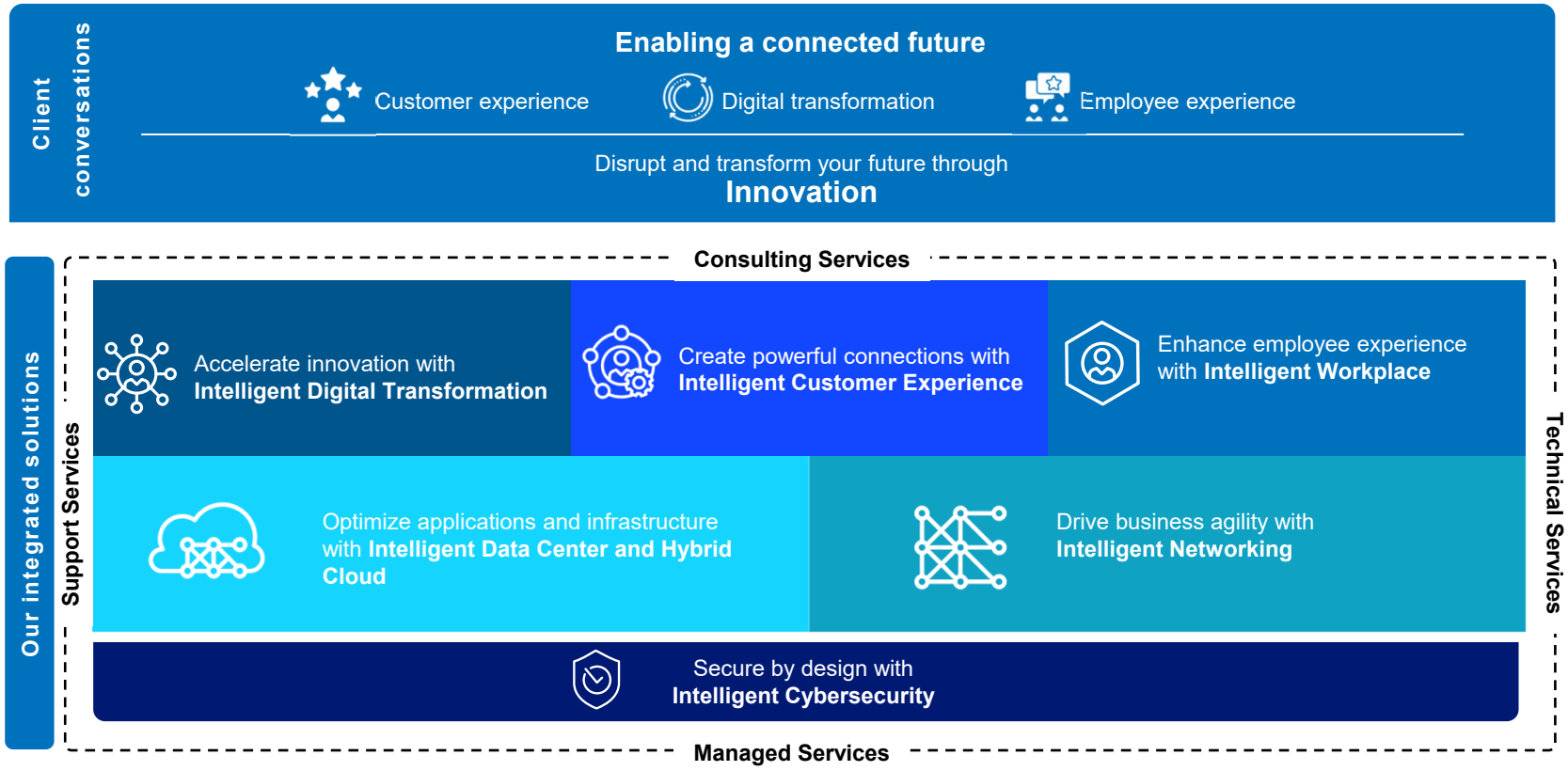
How we've come together


By bringing together the NTT family, we enable the connected future as NTT Ltd.
40,000 employees worldwide
present in **57 countries**
trades in **73 countries**
delivers services in over **200 countries and regions**
clients include **85%** of the Global Fortune 500
USD 11 billion combined revenue
6,000 clients around the world
74 technologies supported


Our clients
are evolving
Organizations are becoming intelligent businesses
Data-driven decisions
Hyperconnected, secure workplaces
Multichannel customer experiences
Software-defined infrastructure across hybrid IT
Secure by design

What we do

We deliver intelligent technology solutions for your business



Our ambition to enable a better world

11
SUSTAINABLE CITIES
AND COMMUNITIES
NTT

NTT
THE GLOBAL GOALS
BUSINESS AVENGER

United Nations' Global Sustainable Development Goal 11 is to make cities and human settlements **inclusive, safe, resilient and sustainable**

The targets

Target 11.2

By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all.

Target 11.3

By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries.

Target 11B

By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, in line with the Sendai Framework for Disaster Risk Reduction 2015-2030, holistic disaster risk management at all levels.

Why cities matter

and why we need to rethink their future

Cities are growing: half of humanity – **3.5 billion people** live in cities today and **5 billion people** are projected to live in cities by 2030.

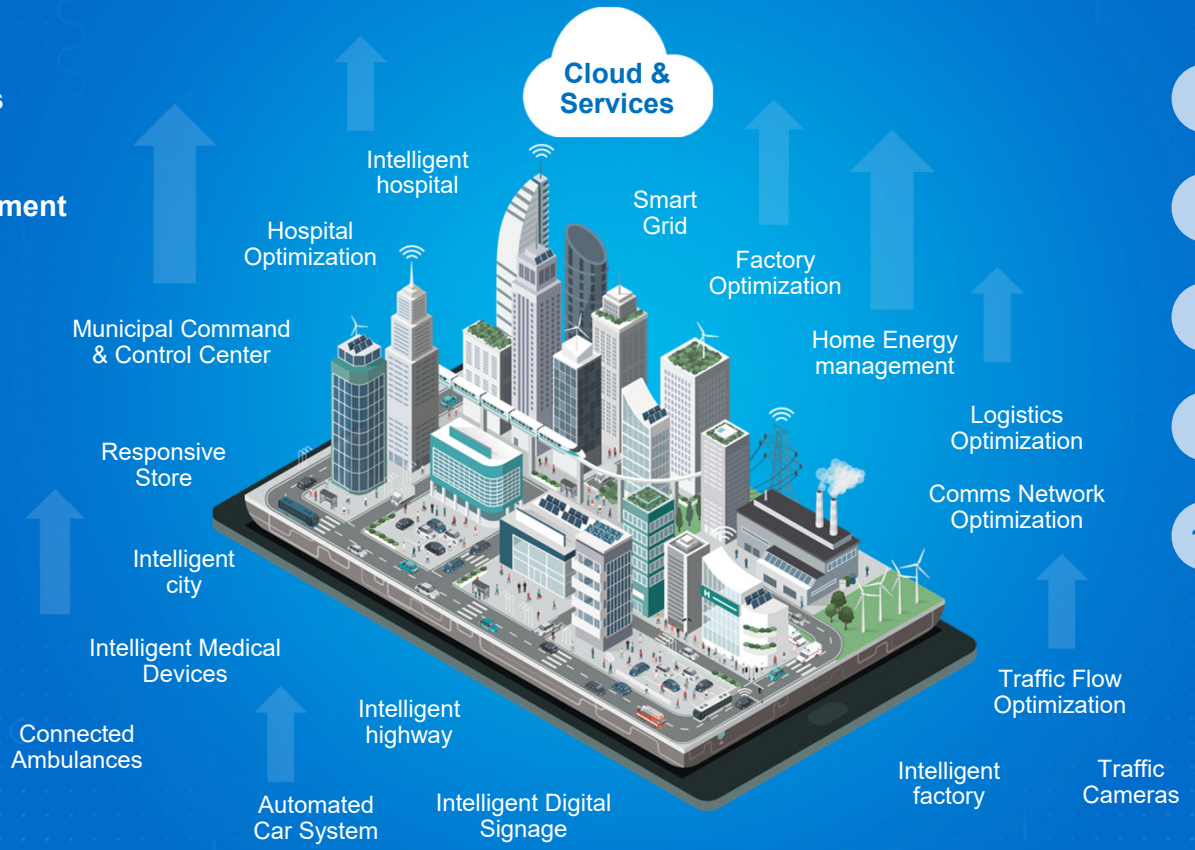
Cities provide financial opportunities as there are more jobs and types of employment in the city.

Cities provide access to healthcare, education, transportation and other public services.

Cities enrich our interpersonal lives as they connect people and different cultures, enabling us to meet new people and socialise in different ways.

Connecting the dots
How it all comes together

1. **Citizen services**
2. **Citizen engagement**
3. **Parking optimization**
4. **Incident management**
5. **Public safety**



6. **City lighting**
7. **Transportation**
8. **Sports & entertainment**
9. **Education**
10. **Health & Wellness**

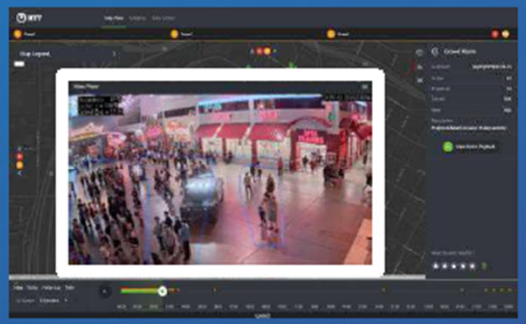
Las Vegas

Solving real world problems with technology

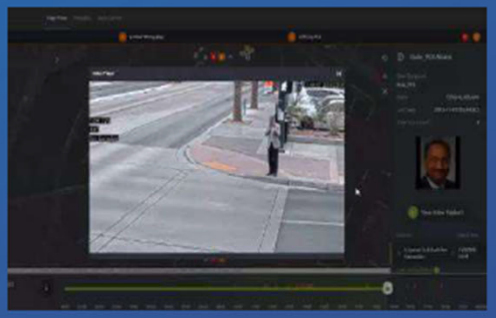
Public Safety Solution for Las Vegas

Functionalities

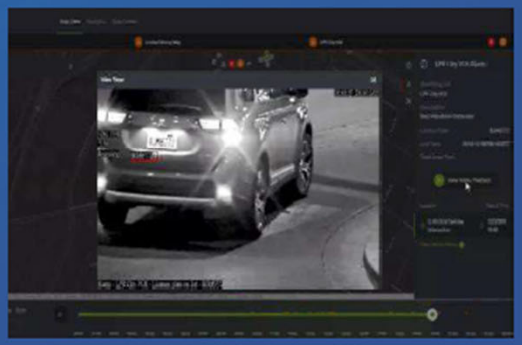
- Crowd Counting, Gun Shots, Panic Screams & Breaking Glass Detection
- Detect Vehicle or Person of Interest
- Detect Vehicle going in the wrong way



Crowd Counting



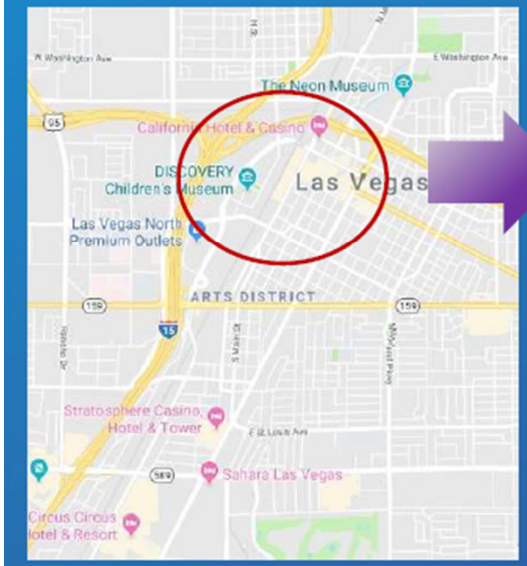
Detect Person of Interest



Detect Vehicle of Interest

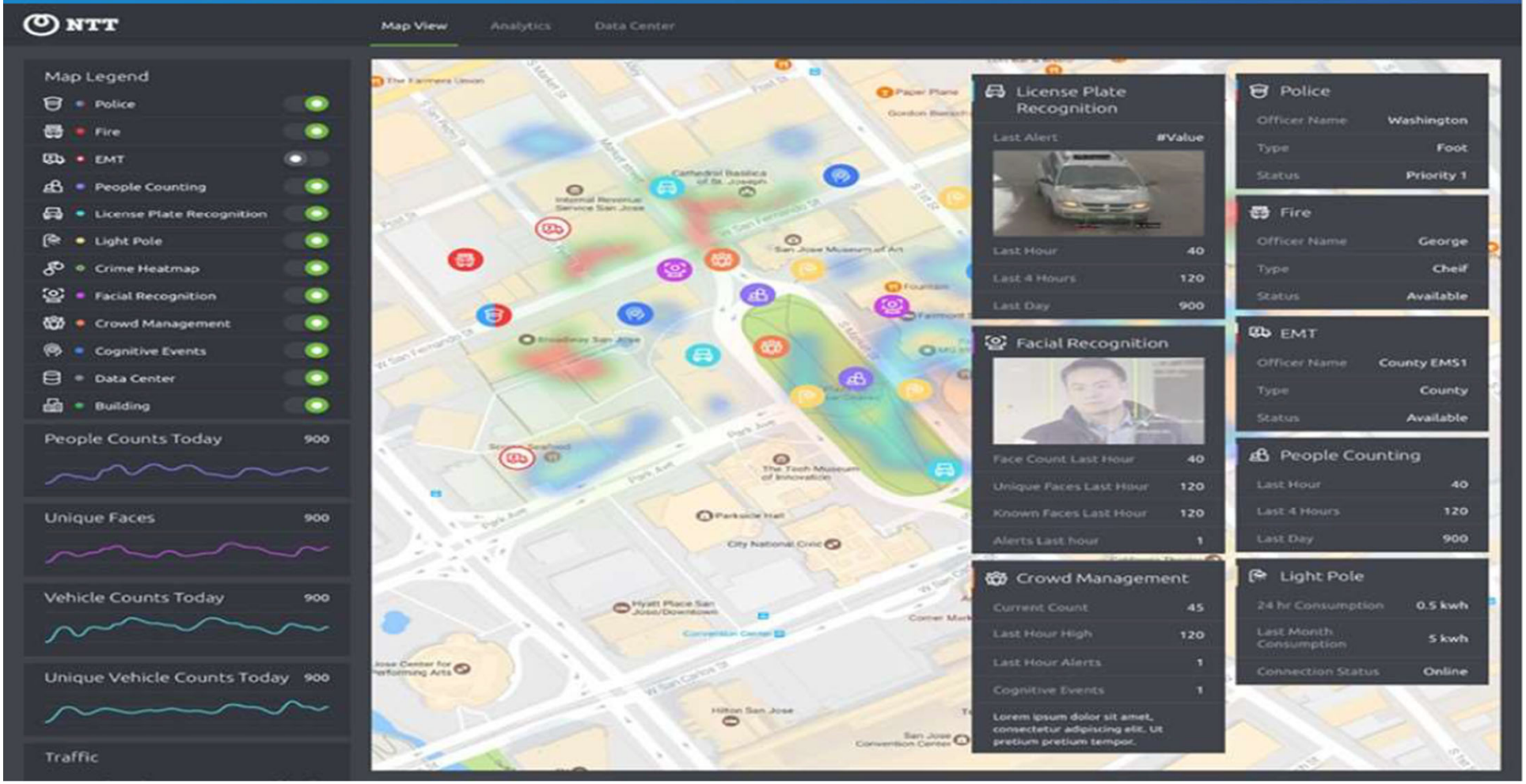
Detect Vehicle going in the wrong way

Deployed Area



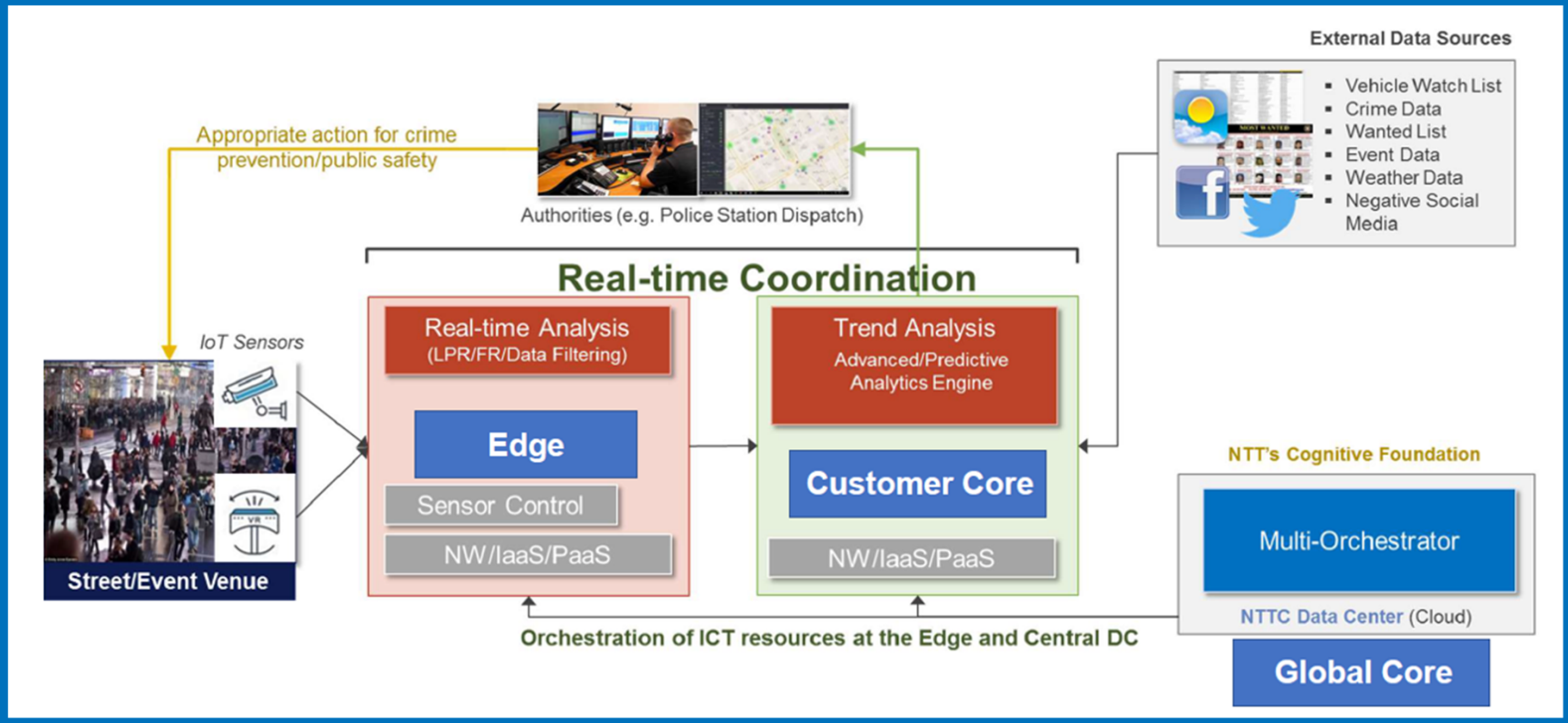
- 35 sensors in the city's innovation district
- 8 sensors in the park (Healing Garden)

Dashboard UI (Image)

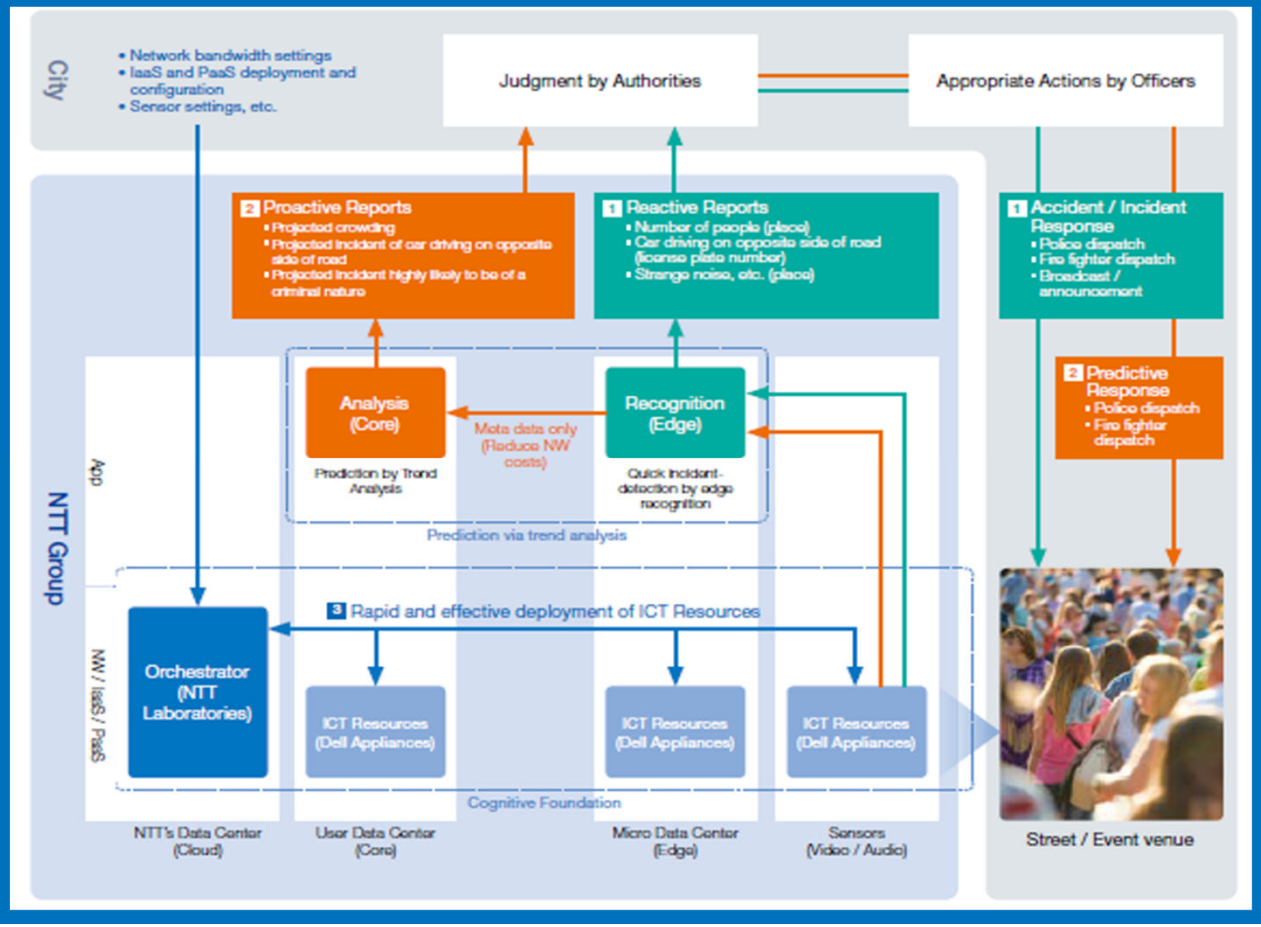


NTT Sensors deployed in the city of Las Vegas

Smart Platform Architecture



Overview of Public Safety Solution



Cupertino: 5 Solutions

Contents

01	02	03	04	05
Noise measurement	Water Irrigation	Climate Monitoring	Multimodal Traffic Count	Adaptive Traffic Signaling

Simple engagement to a complex problem.

1. Understand
2. Design
3. Proof of Concept
4. Deliver
5. Improve

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Sustainable business performance
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