

Securing the deployment of the internet of things

Smart World Event
Malmö, Sweden



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Tomorrow's smart world starts today!



Create a smarter world with IoT where:



- people can depend on and **trust** the technology surrounding them

- **connectivity** brings people and ideas closer together



- **enterprises** can optimize processes and manufacturing

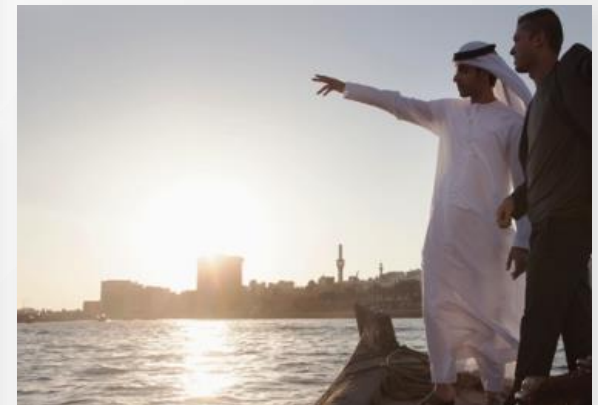
- economic prosperity and political stability underpin **society progress**



- we leave a cleaner planet for **future generations**



- quality of everyday life brings more **convenience** and enjoyments



The making of a smarter world calls for concerted efforts from public and private sectors



Harness connectivity and mobility with *Smart Devices*

Connected Cars



Smart Panels



e-ID Cards

Smart Wearable Devices



Smart Phones

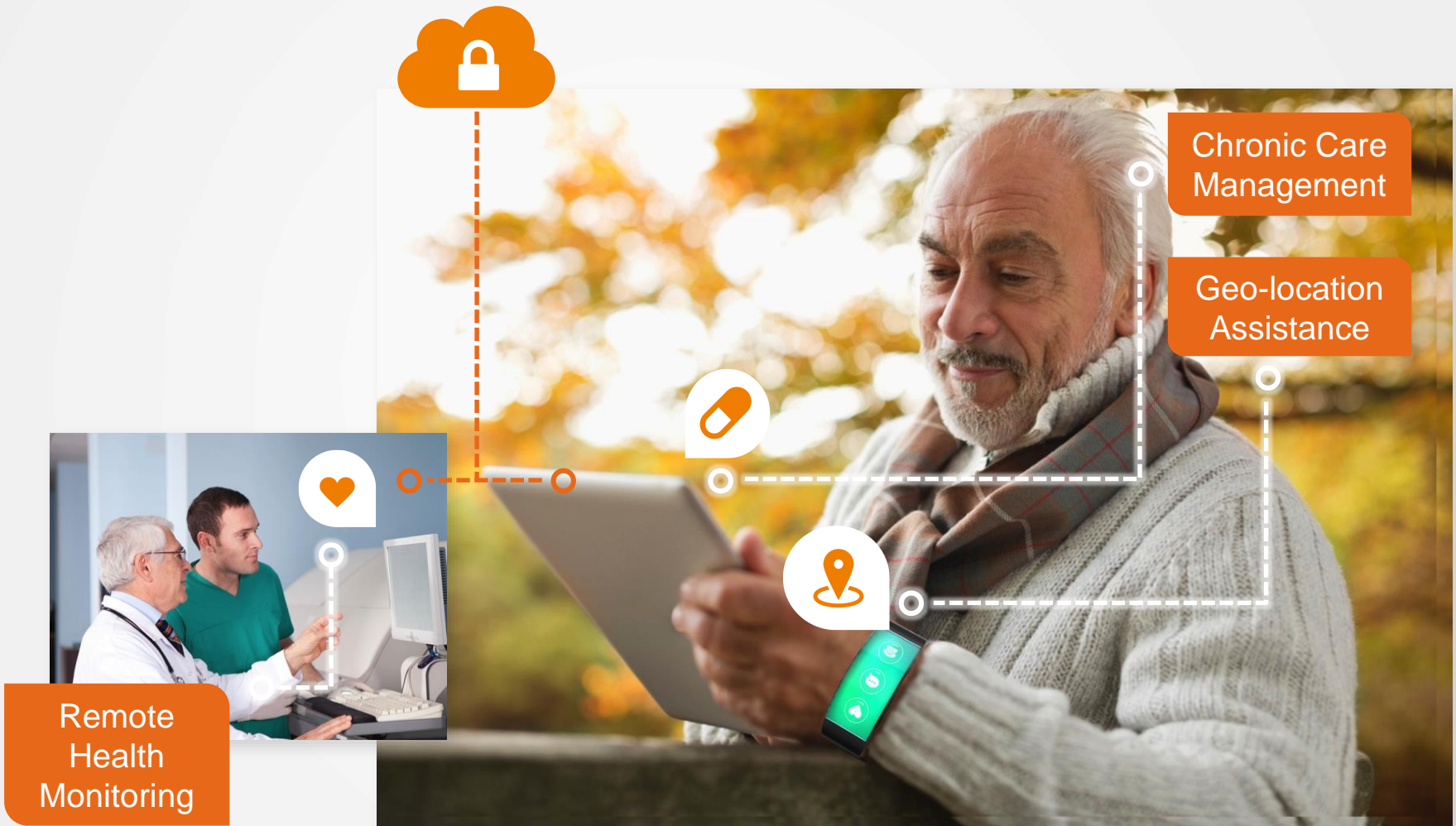


Improve commuting experience with *Smart Transportation*



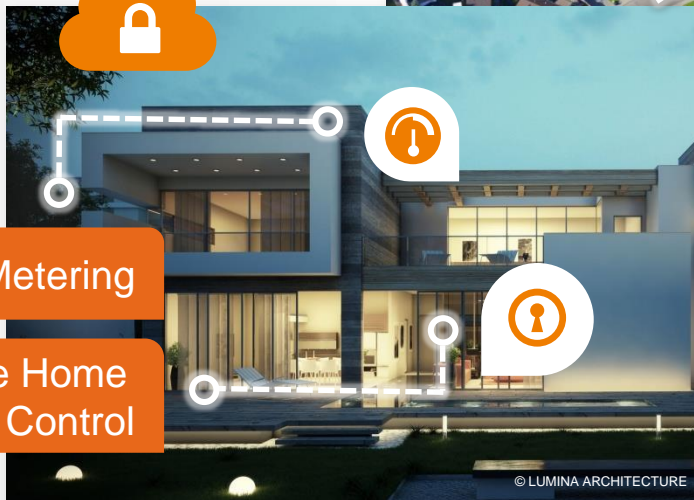
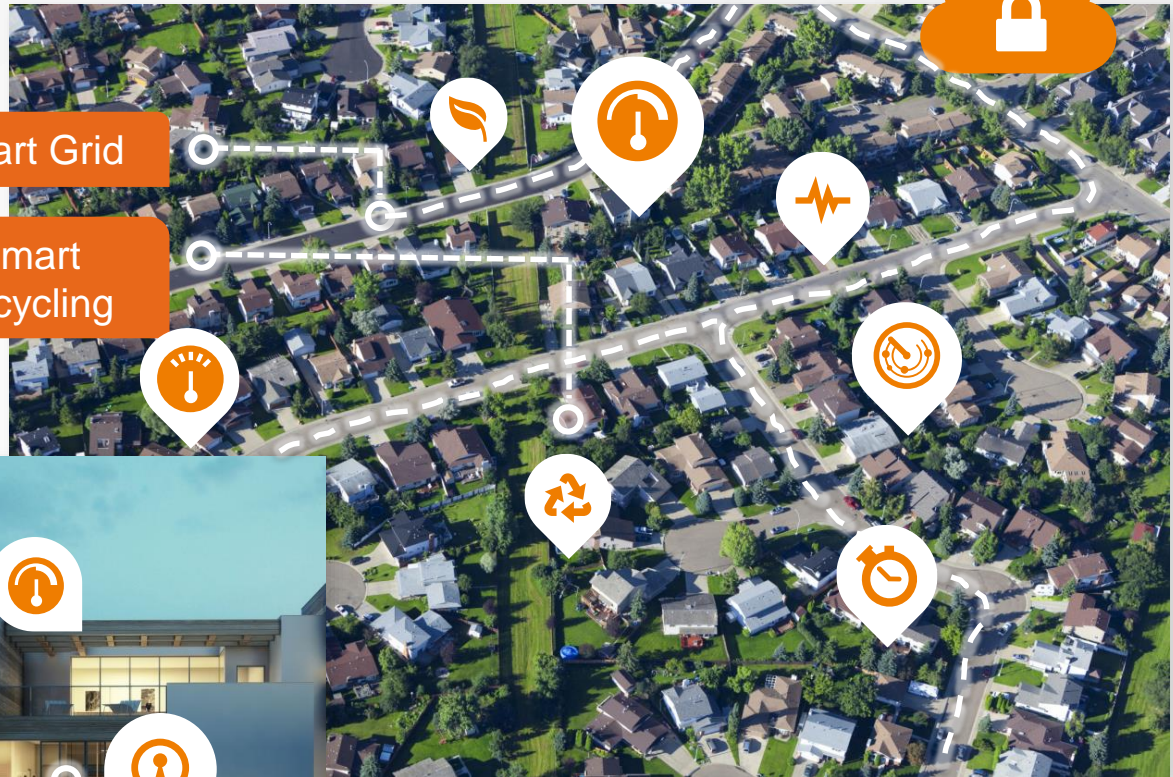


Improve quality of life with *Smart Healthcare*





Promote sustainability through *Smart Energy*





Boost economic development with IoT solutions that drive *Smart Industrial Management*



Fleet Management



Inventory & Supply Chain Management



Real-time Production Management

Industrial Monitoring & Maintenance

Harness connectivity and mobility with *Cloud Infrastructure*



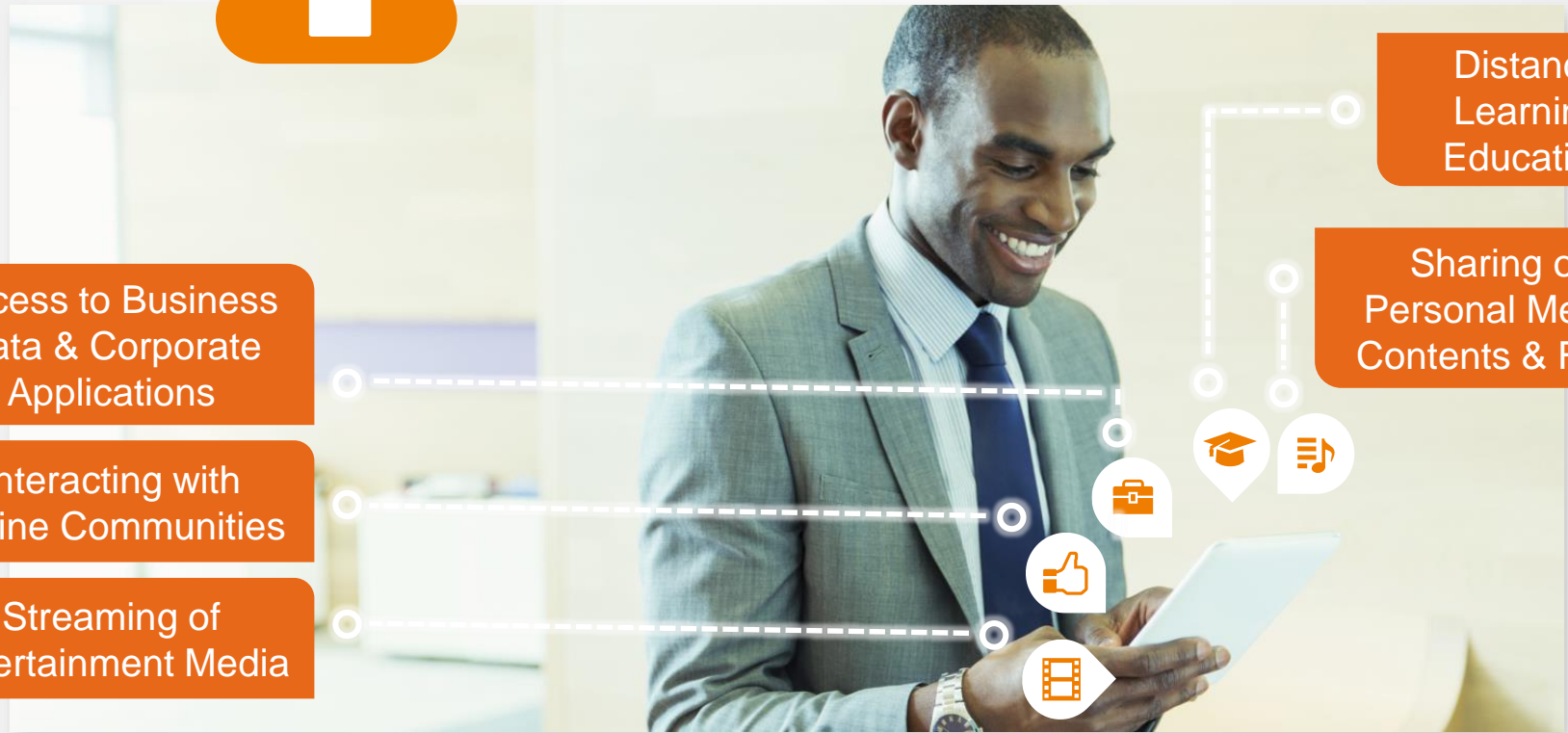
Access to Business
Data & Corporate
Applications

Interacting with
Online Communities

Streaming of
Entertainment Media

Distance
Learning
Education

Sharing of
Personal Media
Contents & Files



Building a state-of-the-art trust infrastructure



- ✧ Use of state-of-the-art digital **encryption and tamper-proof secure elements** to store and manage sensitive data
- ✧ Establish the role of a **Trust Manager platform** that can act as trusted third party to supervise transfer of sensitive information between service providers
- ✧ Ensure that the systems being implemented are industrially **robust, reliable and scalable** with more users adoption, city growth and future innovations
- ✧ Create an open eco-system by leveraging **recognized standards and certifications**, so that innovation can thrive, with application developers and service providers able to cost-effectively develop and onboard new services

Reasons for attacking M2M and IoT solutions

Buzz and glory “I did it”	FAME	Car industry Utilities Consumer electronic
Cyber terrorism	BLACKMAIL	Utilities & energy distribution Governmental IT
Cyber criminality	MONEY	Utilities Governmental IT Car industry
Fraud	MONEY	Utilities Governmental IT Telematics / Health

Secure by design not in hindsight



The level of security of a system is the level of security of the weakest element

Principles of secure communications

Authentication

I am always sure I know who I'm talking to.

Confidentiality

Nobody else shall get the information

Integrity

The message must not be manipulated

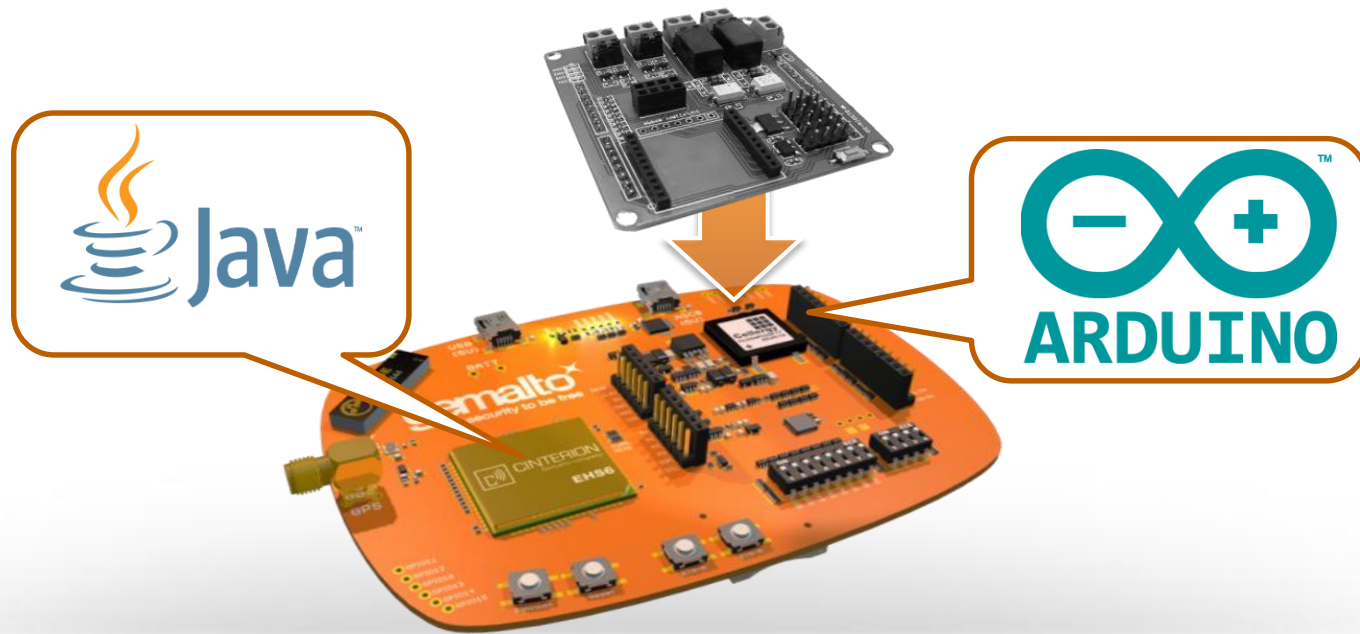
Availability

Can I always communicate when I need to ?

Calling all M2M/IoT Developers

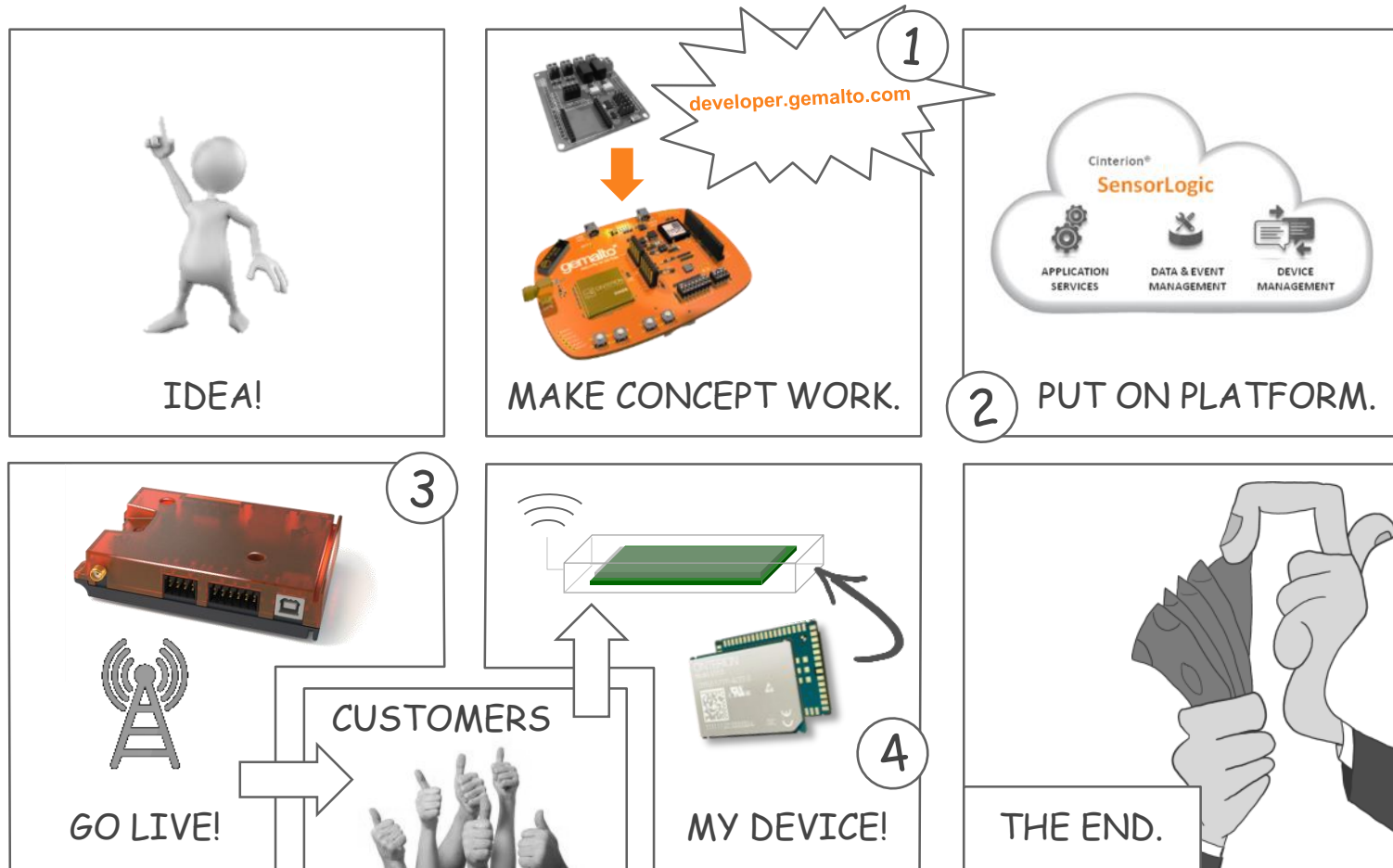


The Cinterion® Concept Board - Bringing two communities to M2M



- > Hardware extensions via Arduino-style “shields”
- > Online Ordering through Gemalto Online Shop
- > Order for 99€ at www.concept-board.com

From good idea to good business in 4 steps



developer.gemalto.com

Join the M2M Community

Gemalto enables connected business models

OUR COMPANY

€2.4 billion

Revenue 2013

12,000+

Employees

44

Countries worldwide with a site in operation

7 billion

People use Gemalto products and services

100 million

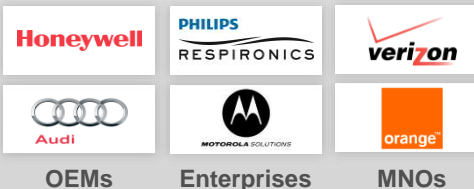
Things connected using Gemalto M2M Technology

OUR M2M CUSTOMERS

Gemalto enables its clients to offer trusted and convenient connected services for a smarter world



All Industries



OEMs

Enterprises

MNOs

OUR M2M SOLUTIONS



Security to ensure trust in a smart world



Platform solutions to reduce complexity



MIM and Services for secure network access



Cellular M2M Modules for smart connectivity

What will you connect?

Let's go connect the world of tomorrow!

Thank You

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www.gemalto.com/m2m

