

The background features a large, semi-circular blue frame on the right side. Inside this frame, there is a globe with a grid of latitude and longitude lines. The globe is semi-transparent, showing a world map. The text is overlaid on this graphic.

# **CDG and CDF**

## ***Working with oneM2M***

*Matthew Tasooji*

**oneM2M Steering Committee Meeting**

# CDG - A Global Industry Association

## ❖ One of world's largest wireless industry associations representing:

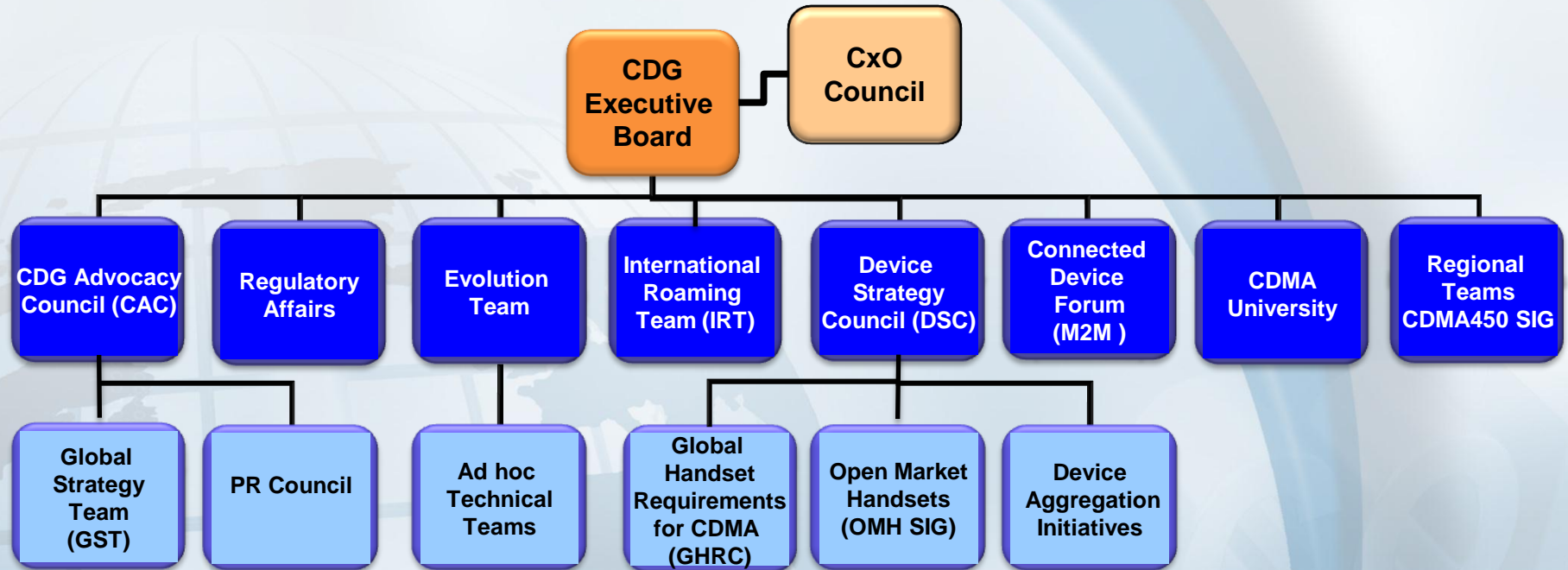
- More than 330 operators in 122 countries
- Over 200 manufacturers and suppliers
- More than 625 million subscribers

## ❖ A single voice promoting the interests of the CDMA and connectivity industry

- Defining a long-term technology evolution path
- Advancing favorable spectrum allocations and regulatory frameworks
- Facilitating the expansion of global roaming
- Facilitating device availability and aggregation



# CDG Organization

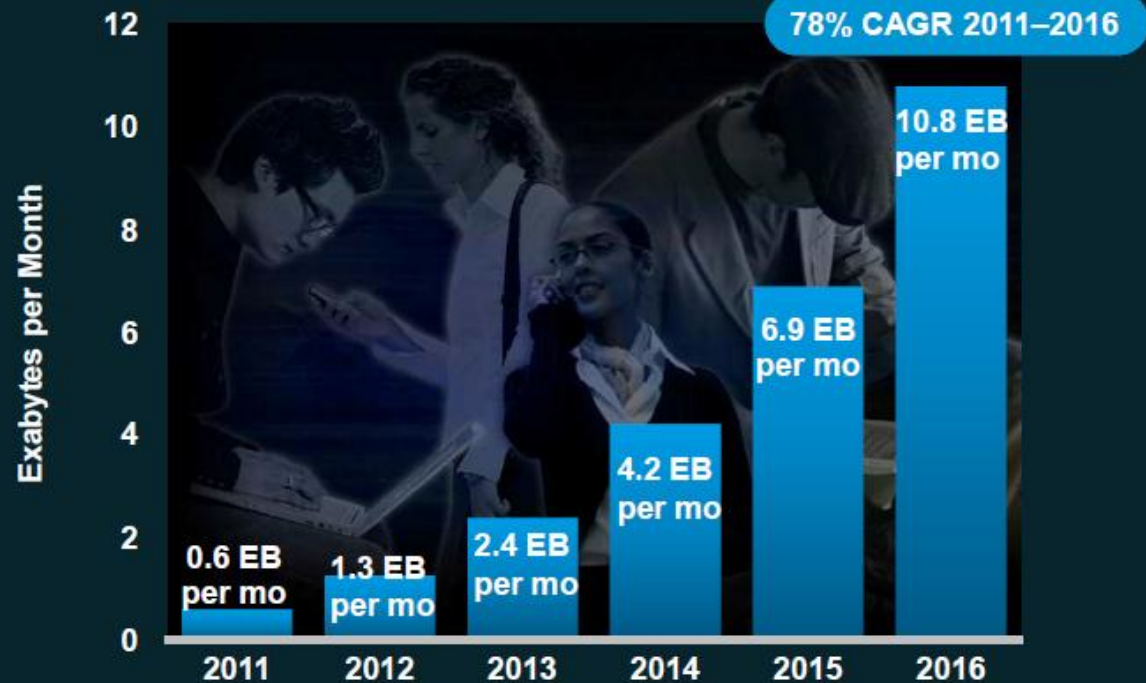


- **CxO Council** – Senior leadership of CDMA operators at the CxO/President level. Provides strategic guidance for all CDG programs
- **CDG Executive Board** – Carrier/Manufacturer member decision-making body that sets direction and priorities
- **CDG Advocacy Council** – Determines strategic actions to promote success in 3G and 4G for operators and their equipment providers
- **Global Strategy Team** – Executes strategies and plans determined by CDMA Advocacy Council
- **PR Council** – Coordinates public relations activities of the CDG and its members
- **Regulatory Affairs** – Represents members' collective interests in regulatory affairs
- **Evolution Team** – Sets priorities and defines the technology evolution path
- **International Roaming Team** – Facilitates the deployment of international roaming services
- **Device Strategy Council** – Determines strategic direction for device and application availability and advancements
- **Global Handsets Requirements Team** – Implements strategy as set by DSC for device requirements globally to encourage economies of scale
- **OMH** – Implements requirements for SIM card-based devices
- **Connected Device Forum (M2M)** – Defines requirements for networks, devices and applications and promotes industry awareness of this rapidly growing market segment
- **Regional Teams** – Define needs specific to the region and execute activities to meet those needs
- **Ad Hoc Technical Teams** – Execute priority initiatives as set by Board

# Projected Mobile Data Growth

## Global Mobile Data Traffic Growth

Global Mobile Data Traffic will Increase 18X from 2011 to 2016



By 2016, there will be 1.4 mobile connections (devices and M2M) per capita.

There will be more than 10B mobile connections (devices & M2M nodes) and 7.3B people.\*

Source: Cisco Visual Networking Index (VNI) Global Mobile Data Traffic Forecast, 2011–2016

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\* United Nations 2016 Global Population Estimate

Source: Cisco Visual Networking Index (VNI) Global Mobile Data Traffic Forecast, 2011–2016

1 Exabyte = 1,000,000 terabytes = Equivalent to data storage of 50,000 years' worth of DVD-quality video.

# Evolution Path

*A long-term roadmap that includes CDMA and OFDM-based technologies*

## CDMA2000 Evolution Path



## OFDMA-based Technologies



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014+

***Not All Network Technologies Fit All User Needs***  
***CDMA2000 and OFDM-Based Technologies are Complementary***

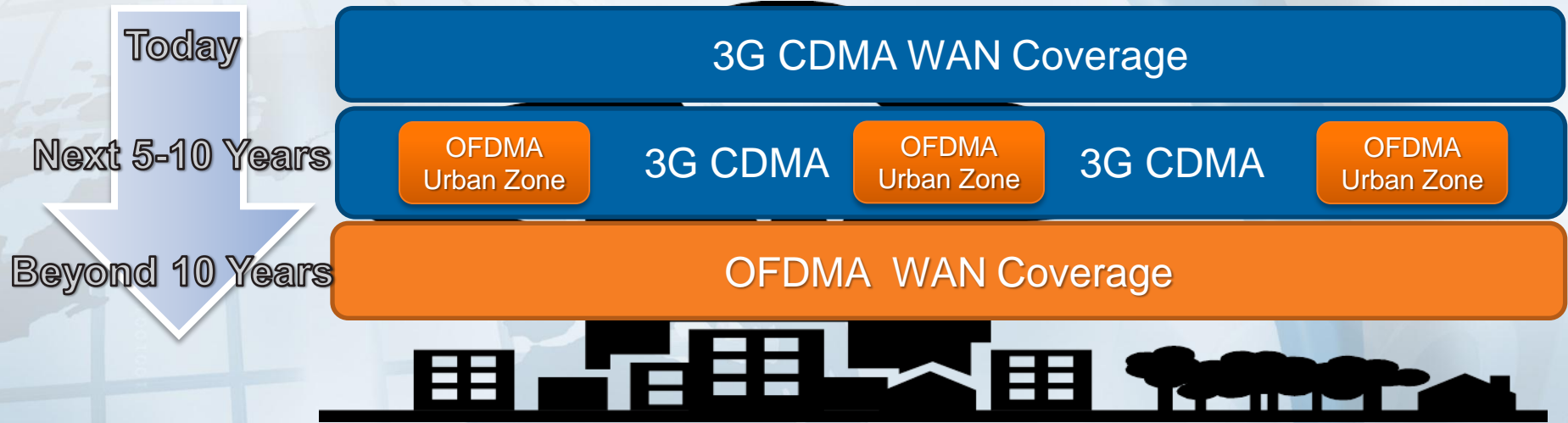


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# OFDMA Broadband Overlay



**3G CDMA WAN networks will coexist with OFDM-based solutions until next generation 4G broadband networks are fully capable of delivering:**

- Ubiquitous coverage**
- Carrier-grade VoIP**
- Low-cost devices**
- Global roaming**

# CDG Device Initiatives

## ❖ Device Strategy Council (DSC)

- ✓ Provide strategic direction for all devices issues

## ❖ Global Handset Requirements for CDMA

- ✓ Develop common requirements for CDMA devices

## ❖ WorldMode™ Devices

- ✓ Develop solutions for inter-standard devices

## ❖ OMH™ Devices

- ✓ Create open devices that can operate across multiple networks

## ❖ Connected Device Forum for M2M (DSC)

- ✓ Accelerate the growth of the M2M market

## ❖ Device Aggregation

- ✓ Expand distribution and enable access to CDMA2000 and LTE devices



# How to Accelerate M2M Market Growth

## ❖ Educate new entrants

- ✓ Resource for M2M information and education
- ✓ Data and connectivity value proposition and business models
- ✓ TCO models comparing options

## ❖ Provide device realization guidance

- ✓ Reduce the time and cost-to-market of new M2M products

## ❖ Provide a forum for vendors and customers to connect

- ✓ Foster collaboration on development and deployment
- ✓ Create new applications and services

## ❖ Promote global compatibility and interoperability

- ✓ Solutions using Partner technologies
- ✓ Commercial complement to the nascent SDO unification effort

## ❖ Establish relationships and influence industry directions

- ✓ Standards and Industry organizations
- ✓ Government and Regulatory bodies



# Some Key Activities

- ❖ Participate in Standards activities such as oneM2M, TR50.1, White Space forum, and others to promote CDF member interests
- ❖ Define common requirements for M2M devices
  - ✓ CDG doc-183 (CDMA Device Test Plan)
  - ✓ CDG doc-195 (Minimum Integrated Device Requirements, (*English and Chinese versions*))
- ❖ Define requirements for a uniform test platform
- ❖ Identify solution needs by market vertical
- ❖ Create an emerging technology group
- ❖ Create an M2M Resource Center
- ❖ Harmonize security requirements for M2M devices
- ❖ Create a common billing process and structure
- ❖ Develop a 450 forum to facilitate M2M ecosystem development
- ❖ Coordinate proof of concept activities

## Additional Information

PLEASE VISIT OUR WEB SITE

**[WWW.CDG.ORG](http://WWW.CDG.ORG)**



The background features a large, semi-circular blue frame on the right side. Inside this frame, there is a globe with a grid pattern. The continents of North America, South America, and Africa are visible in dark blue. The text 'Thank You' and 'Any Questions?' is overlaid on the globe. The text 'Thank You' is in yellow, and 'Any Questions?' is in orange with a blue outline. The overall color scheme is blue and white.

Thank You

Any Questions?