

Smart Mobile Broadcasting Technology, Inc.

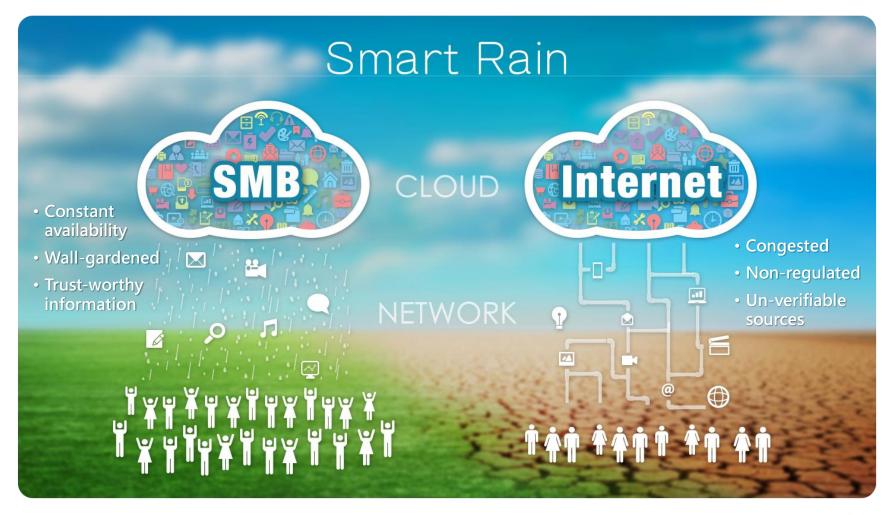
# Smart Rain and SMB

Reach your mind Rich your life

#### Prelude — The Myth of Smart City

What are people expecting?
Where to locate information in the deep clouds?
Who can supply accountable information?
How to distribute data thru limited connection?

#### Smart Rain – Not Only Cloud

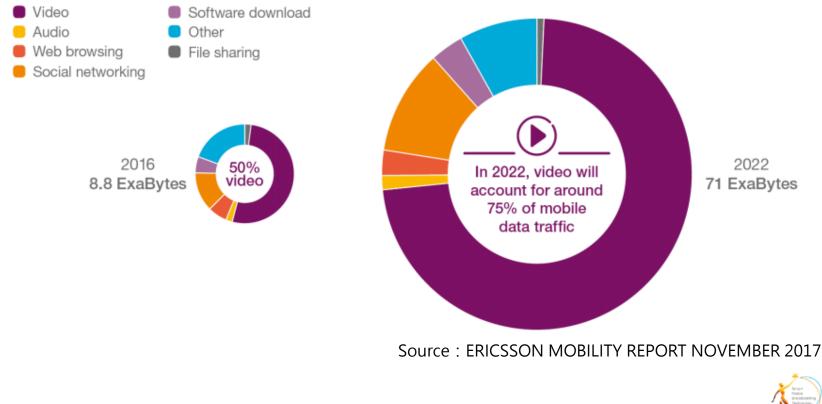




#### **Mobile Traffic Demands**

#### MOBILE VIDEO TRAFFIC IS INCREASINGLY DOMINANT

#### Mobile data traffic by application category per month (ExaBytes)



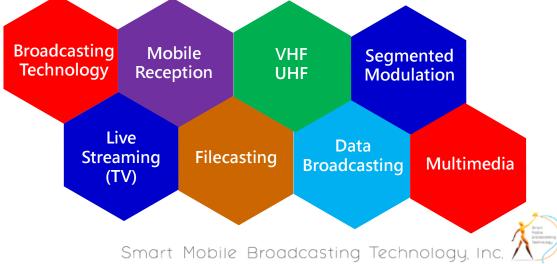
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## The Benefits of Smart Rain via SMB

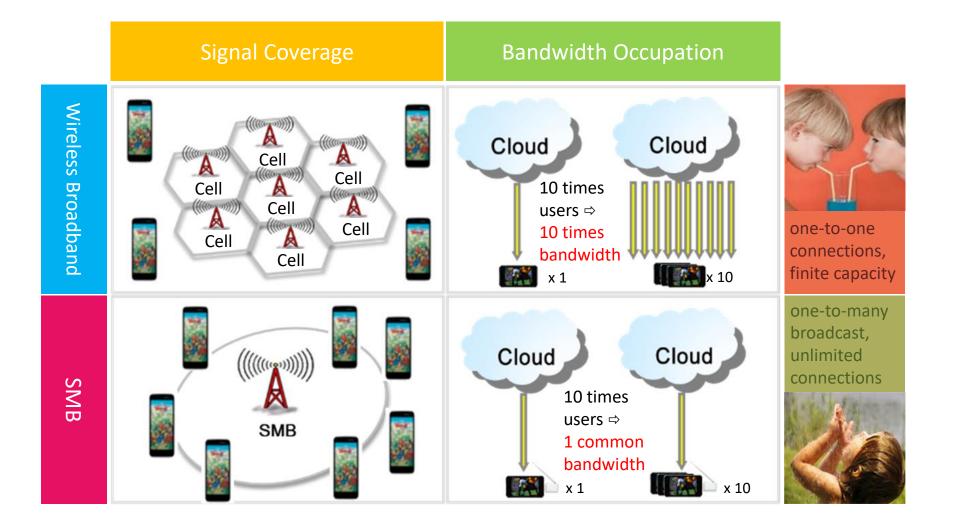
Anytime and anywhere
Real-time service
Unlimited connections
Lower-cost infrastructure
Wall-gardened information

#### What is SMB

- SMB, short for Smart Mobile Broadcasting
- A mobile broadcast technology based on ISDB-T and ARIB standards
- VHF or UHF transmission with wide coverage, good signal-noise ratio, good in-door reception
- Most suitable for live video distribution with low latency (think of TV!)
- Not entirely TV but also file-casting and data broadcasting
- Targeting smartphone reception via external dongle, WiFi gateway, or built-in tuner

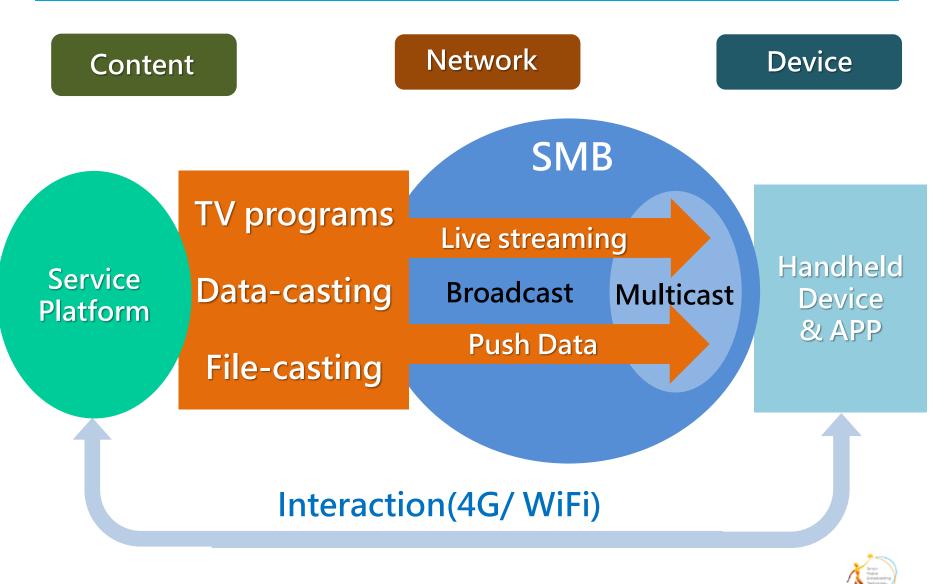


#### **Differences in Methodology**



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#### **Coherence of SMB and Broadband**



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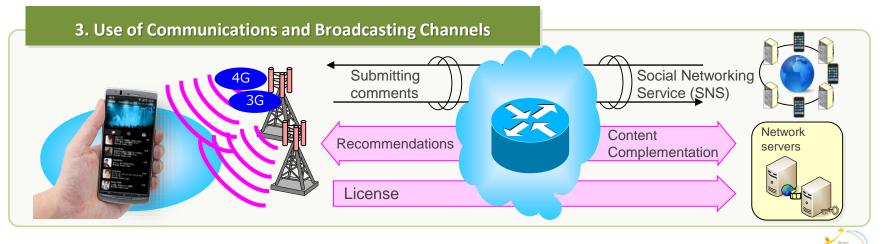
#### **SMB Services Basic**



#### 2. File-based Broadcasting Service

Audio visual contents as well as digital contents by broadcasting channels are stored in mobile terminals temporarily. Subscribers are able to watch their favorite contents at their convenient timing.





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#### **Real-time Emergency Warning**

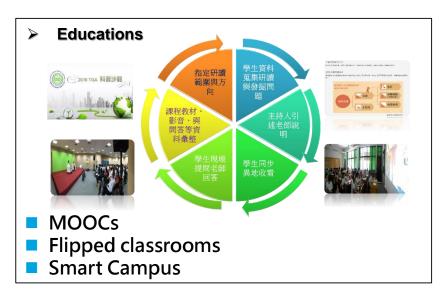
- SMB with EWBS (Emergency Warning Broadcasting System) is a proven real-time emergency warning technology during 2011 Tohoku earthquake and tsunami in Japan.
- Information including early warning, evacuation instructions, rescue status, ration distributions, etc., are broadcasted to wide area from distances.
- Warning signal can wake-up mobile phone even in stand-by mode (if supported).
- In addition to mobile phone, various devices can also be used for warning such as public digital signage, home security system, emergency exit lights, PA systems, etc.



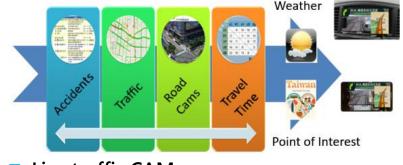


#### **Niche Applications**

- On-site live broadcasting for event
   Studio
   Studio
   Studio
- Enhanced and immersive experiences at the scene of sport games, concerts, festivals, conferences, etc.



Traffic information broadcasting

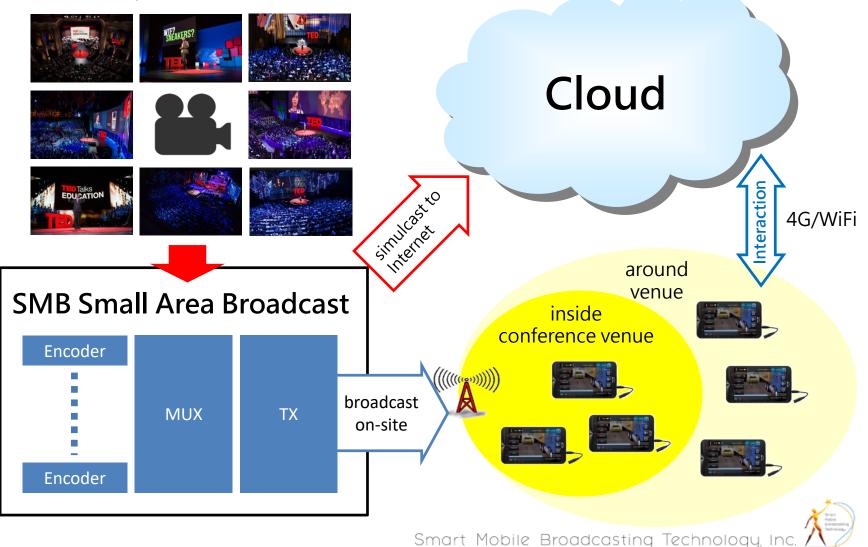


- Live traffic CAMs
- Real time traffic data
- Alternative routing information



## **Conference Event Scenario**

#### Multiple Camera Feeds



### Variety of Receiving Devices

#### Built-in receiver terminals Smartphone, tablet, in-car head unit, radio with EWBS

#### External plug-in dongles For iOS and Android devices

#### WiFi transceivers

Can be built with 3C products such as WiFi AP/routers, Power banks, etc.

### Special applications

Vending machines, digital signage < Kiosk < security and alarming devices



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### Network Deployments

Nation-wide (SFN) National DTV/DAB Service **Emergency Warning Service** Public information(news, push data...) Multimedia Service(live streaming, VOD...)

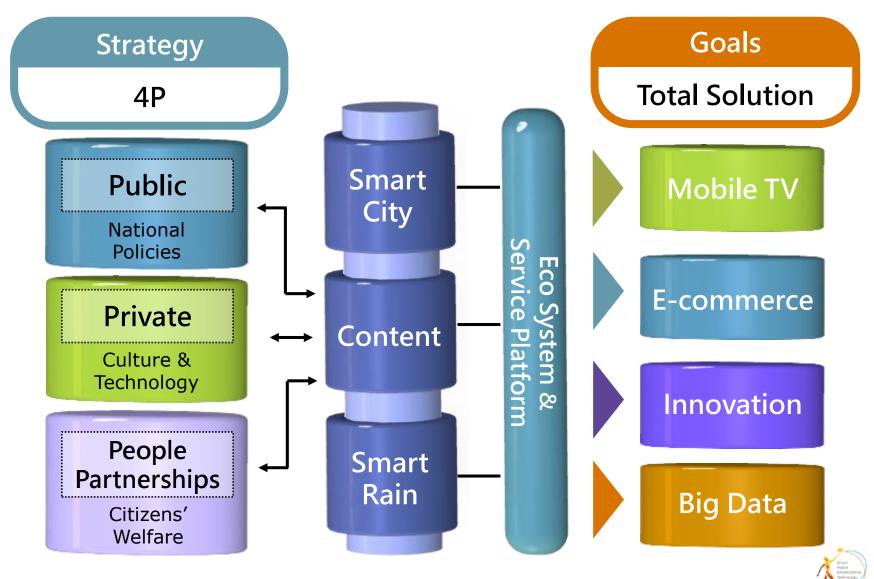
Region-wide (MFN) Regional DTV/DAB Service Smart City application(government push data, traffic, travel, security, education...) Multimedia Service(live streaming, VOD...)

Small Area (White space)

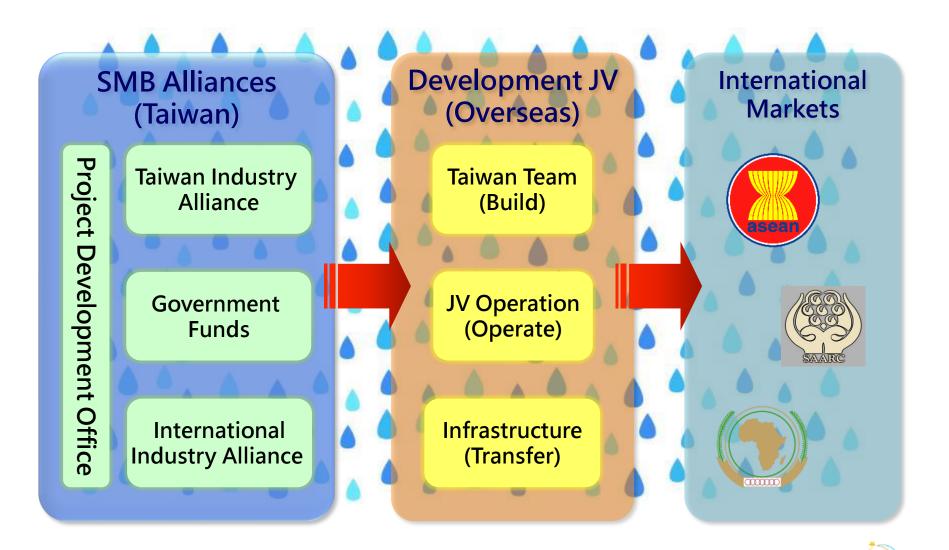
- Smart campus, smart hospital, smart park, smart exhibition ...
  - Live events( sport, e-sport, event party, concert, seminar...)



#### **Business Strategy and Goals**



#### **Business Collaboration Structure**



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## Thank You !

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