



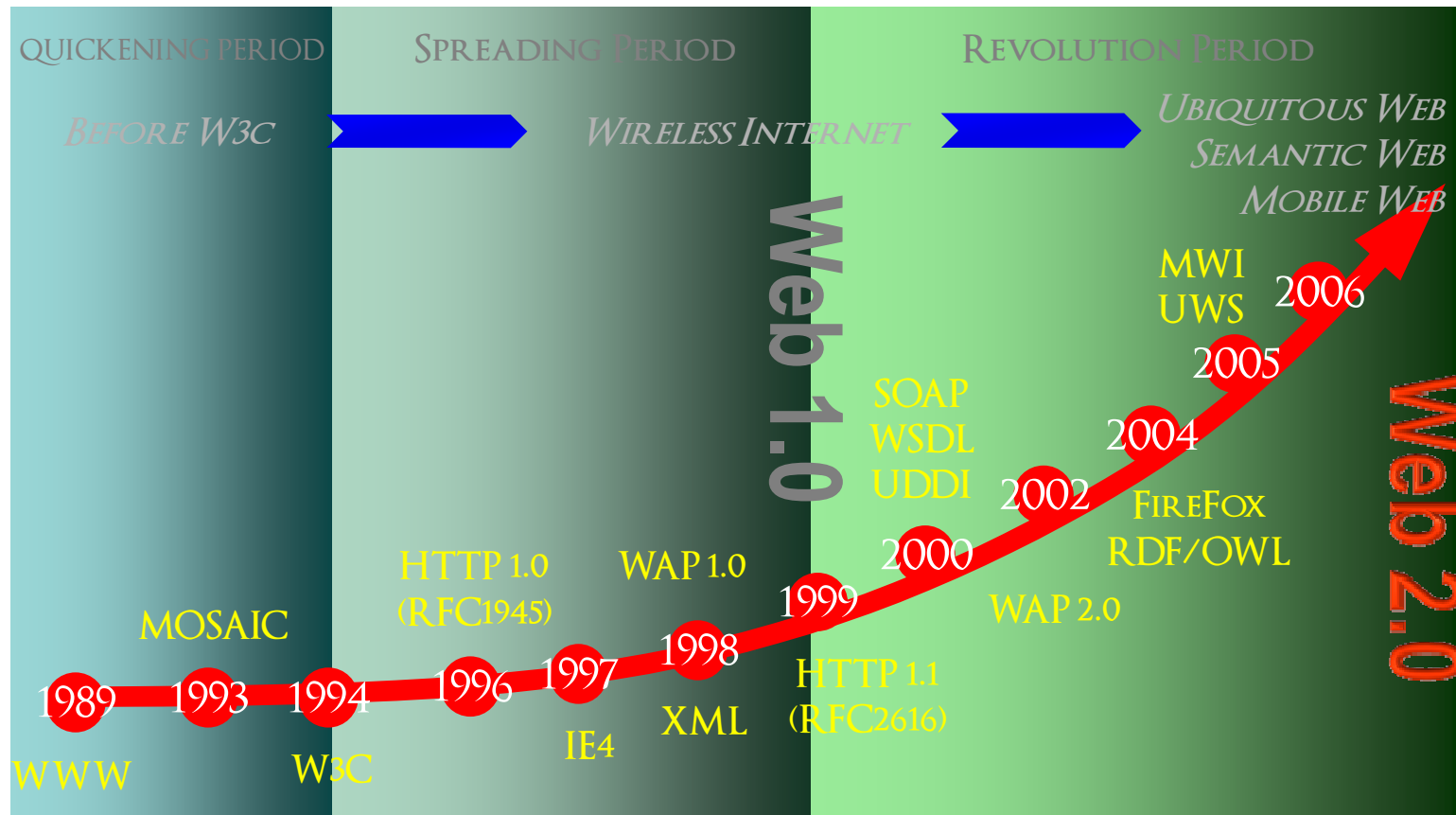
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ETRI PROTOCOL ENGINEERING CENTER

**MOBILE WEB 2.0**

# WEB EVOLUTION

- Web, short history but massive pervasive effect



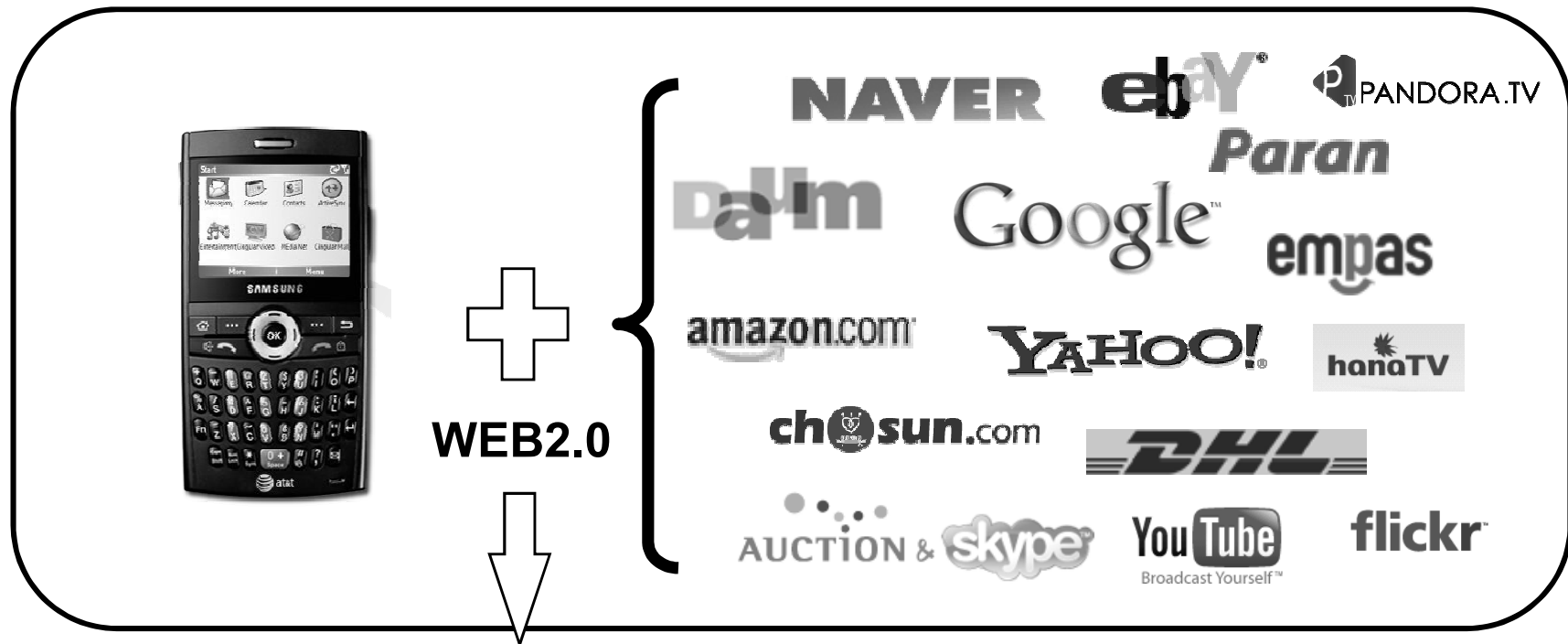
- Now, the essential nature of Web is referred as a Web 2.0

# REAL THINGS ON WEB 2.0

- **7 principles of Web2.0**
  - ① Web a Platform
  - ② Data is the Intel inside
  - ③ End of the Software Release Cycle
  - ④ Lightweight Programming Models
  - ⑤ Software above a Single devices
  - ⑥ Rich User experience
- **Web2.0 brings,**
  - New Perception & Direction for future life rather than new technology
  - Disruption is buzzword !!!

# MOBILE GOES WEB 2.0, MOBILE WEB 2.0

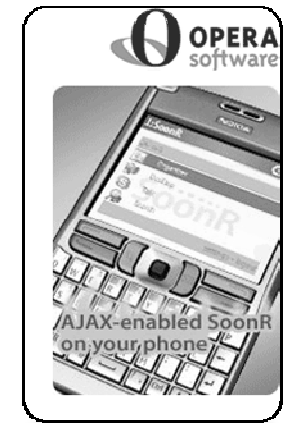
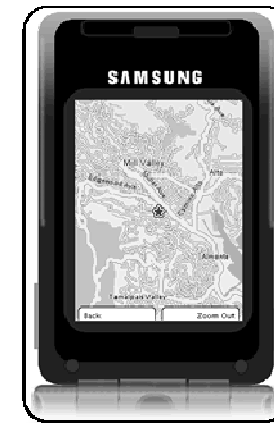
- Now, Mobile environment is on revolution age with Web2.0.
  - Convergence Service, Open Garden service



**Rich User Experiences**  
**New Business Opportunity**

# WHY MOBILE WEB2.0

- What has been changed,
  - Technology Innovation
    - Wireless Communication, Mobile Device, Contents
  - Service Paradigm Shift
    - Open Service, Convergence, User-centric, New Biz Model
  - Huge User Requirement
    - Desktop to Mobile, etc.



# MOBILE WEB2.0 TECHNOLOGIES

- Style Sheet (CSS), XHTML, URL
- REST, XML WS APIs (SOAP)
- Syndication & Aggregation (RSS/ATOM)
- Web Publishing (Blogging, etc.)
- Rich Internet Application (AJAX)
- Open API/Mash-Up
- Web Services

→ Standards basis !!!

# MOBILE WEB2.0 SERVICES

- Full Web Browsing
  - Mobile Widget
  - Mobile SNS(Social network Service)
  - Mobile Mashup/OpenAPI
  - Mobile Lifelog
- Innovative Mobile Service Technologies
- Toward Converged Mobile Service

# MOBILE BROWSING STANDARD

- WAP (Wireless Application Protocol)
  - By WAP Forum, 1997 (OMA since 2002)
  - WAP 1.0 : WML(Wireless Markup Language)
    - Not support existing HTML contents
  - WAP 2.0 : XHTML MP (Mobile Profile), CSS, JavaScript
    - Toward the Full Web Browsing (or Full Browsing)
- Mobile Web Best Practice (MobileOK)
  - By W3C, 2005
  - Now under developing
  - Toward the One WEB !!!



# STANDARDS IN W3C

- HISTORY

- W3C announced the launch of a new Mobile Web Initiative (MWI), designed to make Web access from a mobile device as simple, easy, and convenient as Web access from a desktop device (May 2005)

- Currently, 3 working groups are working

- Best Practice WG
- Device Description WG
- Test Suit WG



NOKIA  
Connecting People

ERICSSON  
TAKING YOU FORWARD

&ftgroup

hp  
invent

NTT  
Do Co Mo

vodafone

TIM  
Living without borders

volantis  
systems

sevenval 7

OPERA  
software

mobileaware

.mobi

segala

DRUTT  
CORPORATION

Argogroup

bango

rulespace

JATAAYU  
Building the Network

Afilias  
GLOBAL REGISTRY SERVICES











# UNDERSTANDING OF MOBILEOK

## Mobile Web Best Practices



W3C<sup>®</sup> Mobile Web  
Initiative 

## 10 ways to mobilize

-  **Design** for One Web
-  **Rely** on Web standards
-  **Stay away** from known hazards
-  **Be cautious** of device limitations
-  **Optimize** navigation
-  **Check** graphics & colors
-  **Keep** it small
-  **Use** the network sparingly
-  **Help & guide** user input
-  **Think** of users on the go

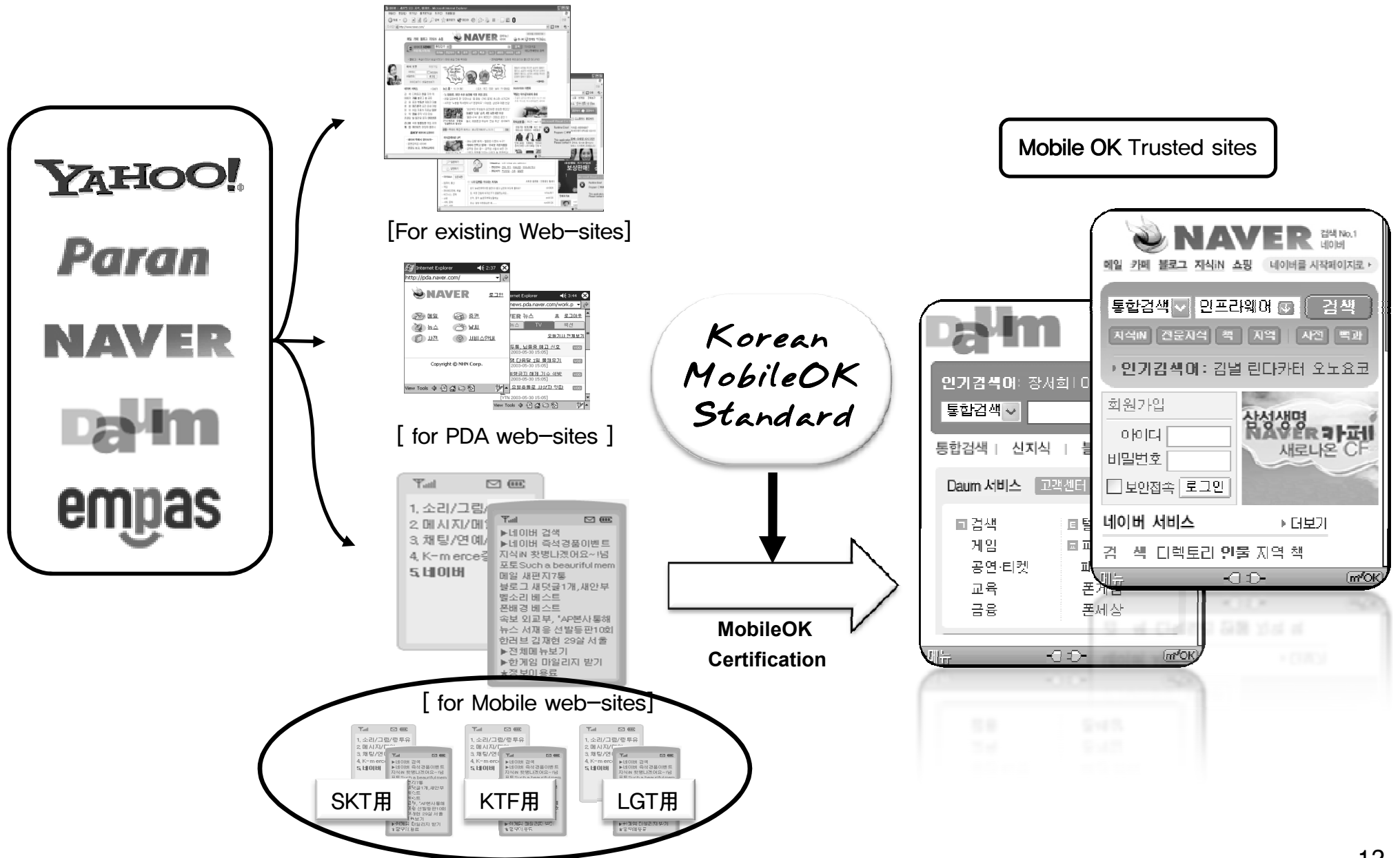
Source: [http://www.w3.org/2007/02/mwbp\\_flip\\_cards](http://www.w3.org/2007/02/mwbp_flip_cards)

# W3C STANDARDS ADDRESS CHALLENGES

User Requirements	W3C Solutions
<i>User-friendly content</i>	<b>Mobile Web Best Practices*</b>
<i>Effective adaptation</i>	<b>Device Description*</b> <b>Ubiquitous Web*</b>
<i>Child protection, labeling</i>	<b>Protocol for Web Description*</b>
<i>Ease of discovery, trust</i>	<b>mobileOK*</b>
<i>Voice, stylus, keys</i>	VoiceXML, Multimodal
<i>Universality</i>	WAI, I18N, <b>Developing World*</b>
<i>Security</i>	Browser Security Context
<i>Interoperability</i>	Web standards: XHTML, CSS, Graphics, Forms, AJAX, Widgets, <b>Ubiquitous Web*</b> , etc.

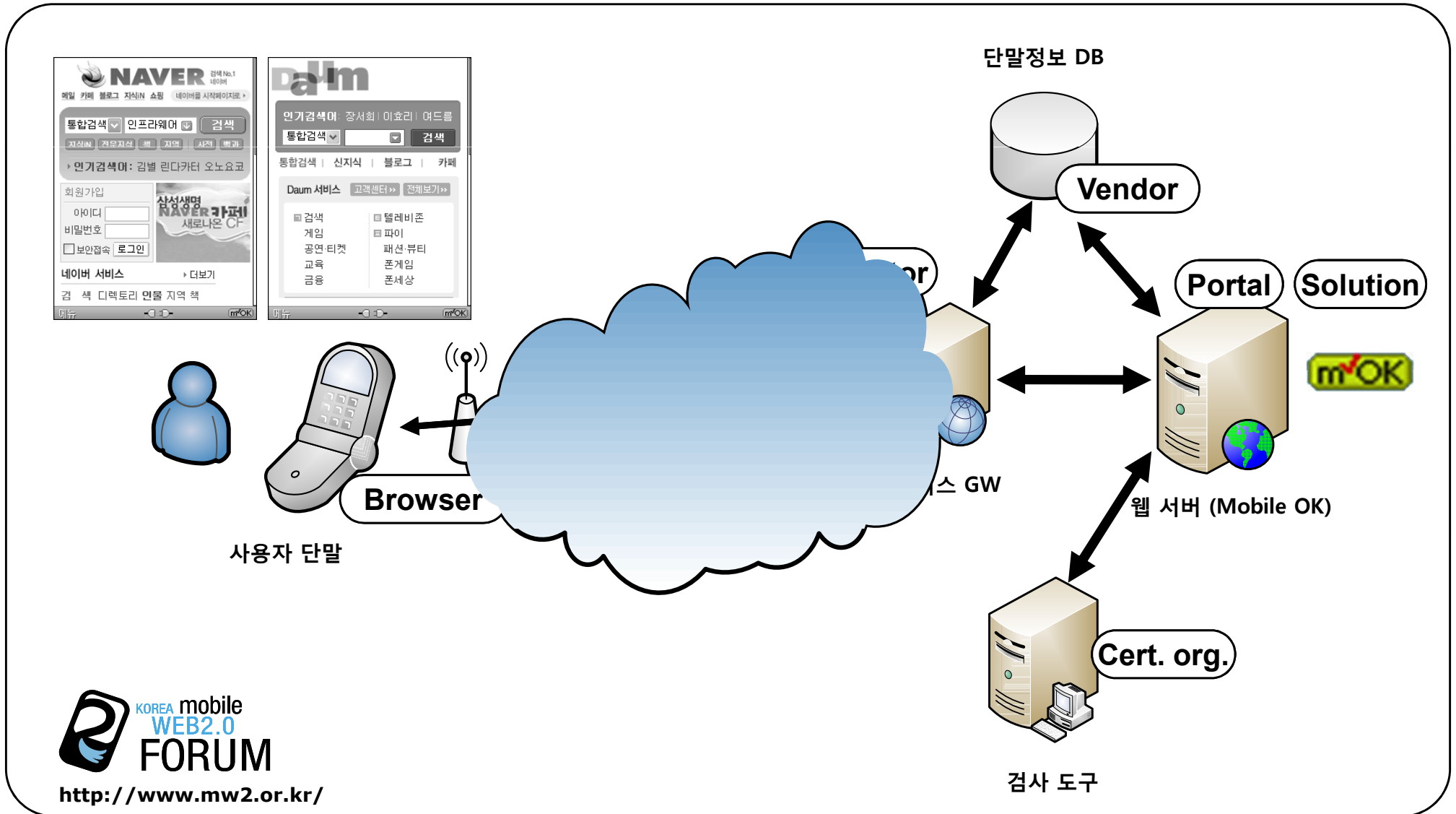
Source: Steve Bratt ([steve@w3.org](mailto:steve@w3.org))

# KOREAN MOBILEOK STANDARDS



# KOREAN MOBILEOK TRIAL SERVICES

(FROM DEC. 2007)



# MOBILE WEB 2.0 FORUM

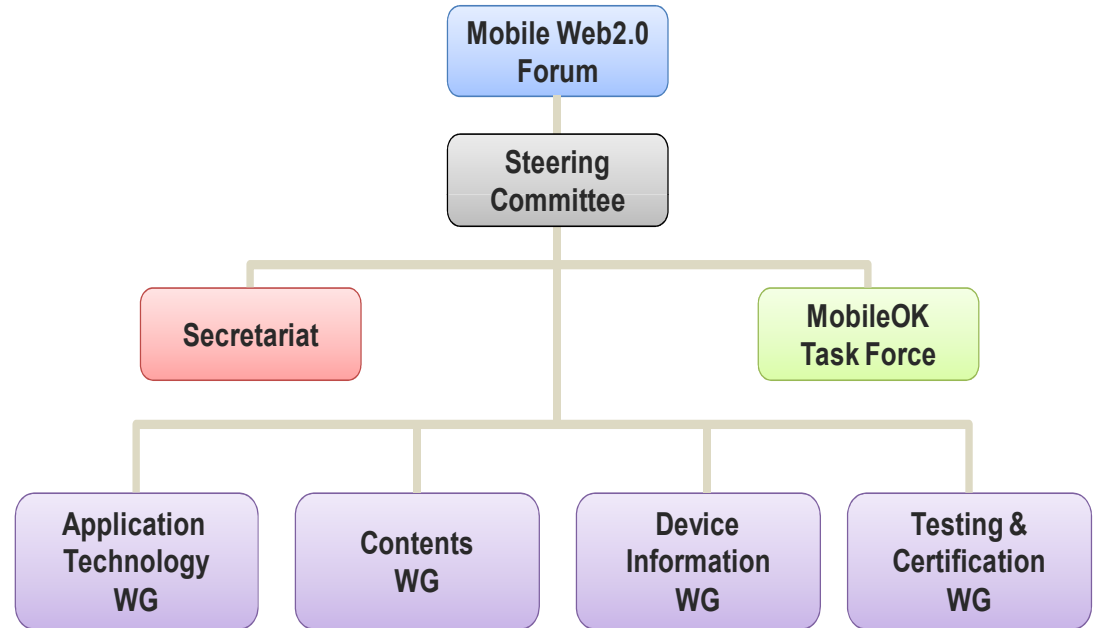
- **Mission**

- Mobile Web 2.0 Forum has the mission of "mobile Web based industry revitalization", "leading both domestic and international technology and standards", "strengthening competitive power in mobile Web industry".
- The forum is to develop standards and guidelines for obtaining interoperability of Web contents between various devices, and realize visions for constructing the next generation mobile Web environment.

- **Expectation Effects of Mobile Web Standards**

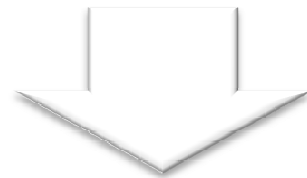
- Improving mobile Web user experience
- Increasing efficiency in content development and reducing its cost
- Providing interoperable standard-based Web content services environment
- Obtaining interoperable Web contents in fixed and wireless convergence environment
- Promoting open mobile service infrastructure
- Increasing service mash-ups and internet resources utilization
- Achieving stability of mobile services
- Facilitating development of new services, mobile Web contents, and convergence applications
- Promoting and activation mobile life

# MOBILE WEB 2.0 FORUM



# FUTURE PROSPECT

- Open & Converged Mobile Service
- High-quality Multimedia Mobile Service
- User centric Mobile Service
- Life & Business centric Mobile Service



Mobile Life 2.0



# CONCLUSION REMARKS

- A Web in Mobile would be a new Killer Apps for near future Internet environment
- Global Standardization activities of Mobile Web in W3C MWI activity
- With Web2.0, Mobile Service will bring new type of service and new business opportunity
- International Collaborations are required for more advanced global mobile services

*Thanks for your attention*

Q & A