

Opera leading the way in full Internet

Opera 9



Kai Leppänen

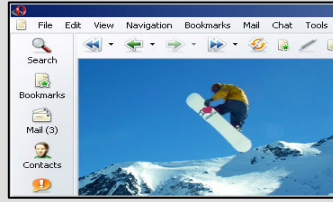
Vice President, Mobile

Agenda



- 1** Introducing Opera to III VAS audience
- 2** Mobile Product Portfolio
- 3** Web vs WAP
- 4** Web vs WAP Proof of Concept

Opera's Mission



Deliver the best possible Internet experience to all Internet users, regardless of geography and skill levels, across all devices.



Opera for Desktop

Multiplatform desktop browser for Windows, Linux and Mac.



Opera for Mobile

Web browser solutions for any mobile phone.



Opera for Devices

Embedded browser for verticals, TV, game consoles and IP solutions.

Focus

R&D Desktop

R&D Internet Devices

Commercialisation

Expanding in the value chain

Innovation

Keyboard navigation
Multiple Documents
Image zooming
Mouse Gestures

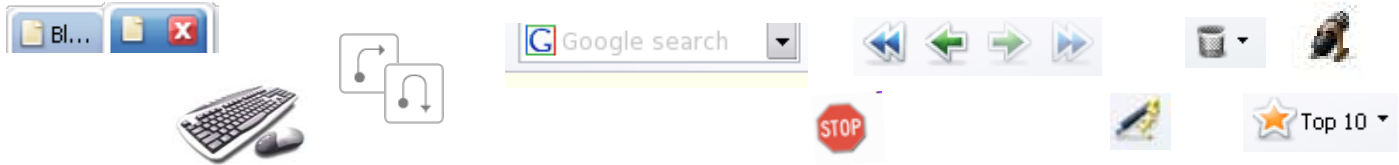
Cross-platform development
Porting to EPOC
Focus on Modularisation
Opera Show

Small Screen Rendering
Footprint reduction
Spatial navigation
Smart frames
Table magic
DOM/BIDI for Smartphones

Opera Platform
Multimodal
ERA
Web forms
Home Media



Features



Products

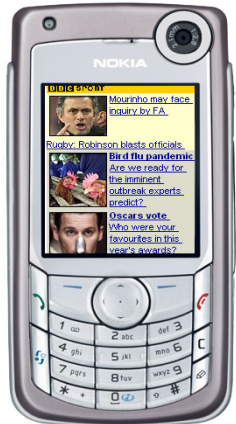


Opera is already in a range of platforms...

- Desktop computers
- Laptops
- Gaming consoles
- TVs
- Set top boxes
- Mobile phones
- Personal communicators
- Portable media players
- PDAs
- In-flight entertainment systems
- Web tablets
- IP screen phones



Opera's Reformatting Technologies



176x208

320x240

700x512

SSR

MSR

TVR

Extensible Rendering Architecture (ERA)

Our rendering technologies adapts content of a web page dynamically to fit any screen orientation and resolution

“[Opera's] new software will help transform the wireless Web from a misnomer into a reality.”

The Economist, 2005



Opera for Mobile

Web browser solutions for any
mobile phone.

Opera Mobile: Same code base – 3 products



Opera Mobile Widgets

Device independent
platform for mobile web
applications



Opera Mobile

Full web client browser
for Smartphones

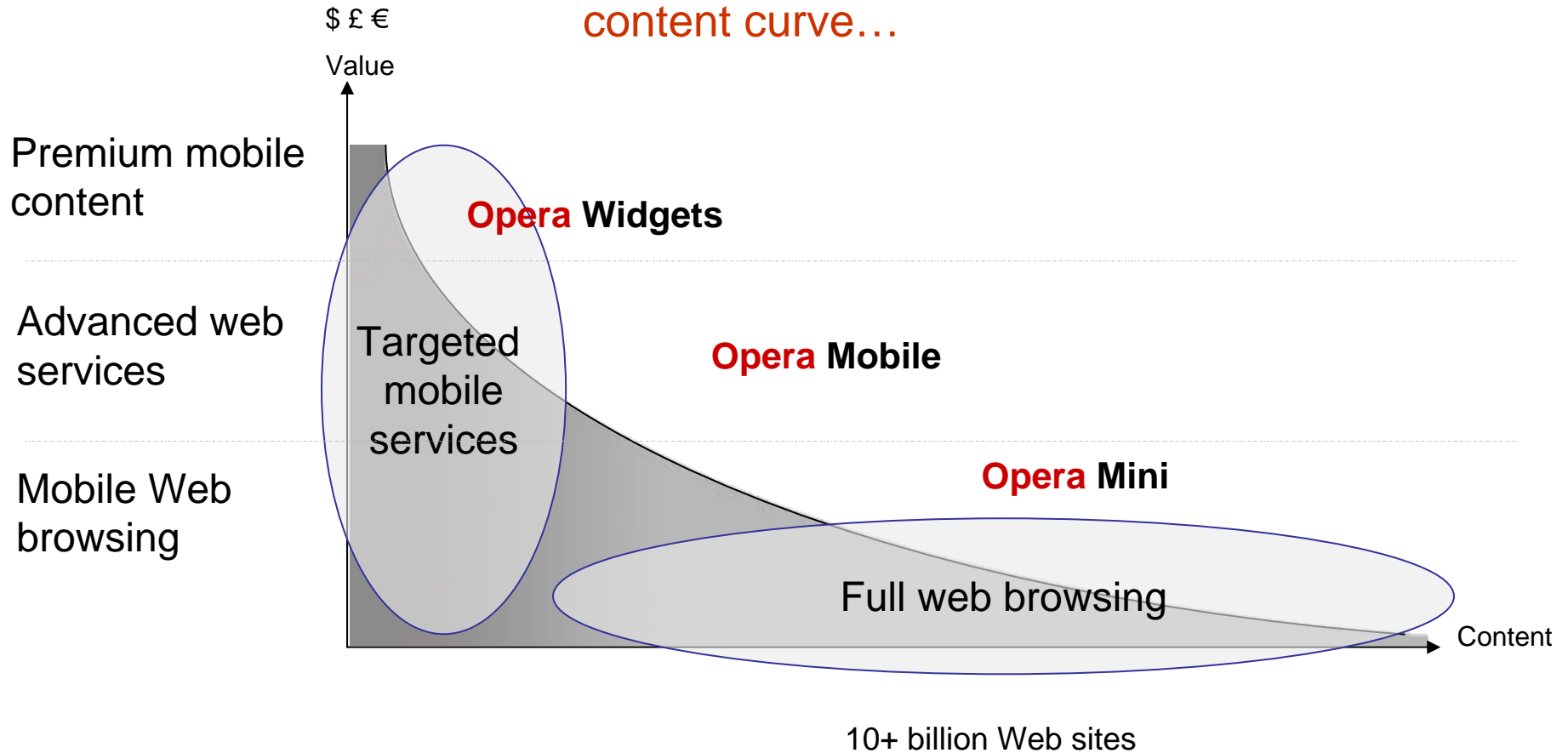


Opera Mini

Light java browser for mid-tier
and feature phones

Why Mobile browsing?

Service providers need a strategy for the full content curve...



Experience since Worldwide release in Jan. 2006

+7 million unique active users since launch

Page compression to 10-15% of actual desktop size



Over +2 billion pages downloaded

Average downloads 10- 15 pages per user per day

“Norway’s Opera Software....., recently unveiled what’s quickly become recognized as the best cellphone Web browser yet, known as Opera Mini”

Matthew Maier, CNN.com

“This is a really big breakthrough for the mobile space.”

Michael Gartenberg, Jupiter Research

Product Architecture

Opera Mini



Small Java application

- Browser user interface
- **OTA deployment:** download with phone browser from <http://mini.opera.com>
- MIDP 1 & 2: 50-100KB

Opera Mini Server



Featuring full Opera browser engine to:

- **Render page** with Opera Small Screen Rendering
- **Minimize traffic volume** and **improve loading time**
- **Provide billing information** to trusted web sites

Internet



Web & WAP content

Compressed traffic via OBML*

HTTP(s)

* OBML: Opera Binary Markup Language – a compressed, binary representation of the page rendered by Mini Server

General Commercial Models...

Option 1: A Royalty free **Generic version** of Opera Mini can be distributed by selected partners



- Opera provides license-free Hosted download server and proxy solution
- Partner provides marketing and device pre-installation

Price:
Distributor only pays yearly Support & Maintenance

Option 2: Partners licenses a **Custom or Branded versions** of the application and promote their own services
























































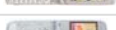

































Opera offers:

- Hosted server solution
- Client customization & branding services
- Support & Maintenance

Price: Dependant on volumes and level of customization

31 Models shipping with Opera in 2006

		Motorola A1200 	Sharp W41SH 	
		Sharp W-ZERO3 	Toshiba W45T 	
		Nokia 9300i 	Sanyo W42SA 	
		Toshiba W32T 	Kyocera W44K 	
*: Only in Cingular's network		Sony Ericsson P990 	Motorola RAZR V3x ** 	
: Only in T-Mobile's network		Nokia 6630 	MOTORAZR maxx 	
Last updated: Aug 30, 2006		Kyocera WX 300K 	MOTORAZR xx 	Opera Mini™
		Kyocera WX 310K 	Nokia N70** 	Nokia 6233** 
		Kyocera AH-K3002V 	Sharp W-ZERO3[es] 	Sony Ericsson W810i** 
		Nokia N70 	Sony Ericsson M608c 	Nokia 6131** 
		Nokia N90 	Nokia N72 	BenQ-Siemens EL71** 
	Nokia 7710 	T-Mobile SDA II** 	Toshiba W44T 	BenQ-Siemens EF81** 
	Casio W21CA 	Motorola E895 	Hitachi W42H 	Sony Ericsson K608i** 
	Nokia 6620* 	Motorola E680i 	Casio W42CA 	Nokia 6280** 
	Nokia 9300 	Hitachi W32H 	Sony Ericsson W42S 	Motorola RAZR V3i** 
Sendo X 	Motorola A780 	Nokia 6682 	Sanyo W33SA II 	Motorola RAZR V3 ** 
Nokia 6600 	Sony Ericsson P910 	Nokia 6681 	Sanyo E02SA 	Motorola L7** 
Sony Ericsson P900 	Motorola A1000 	Nokia 6680** 	Toshiba W43T 	Hitachi W43H 
Motorola A920 	Nokia 7610 	Toshiba W31T 	Sony Ericsson W950 	Toshiba W47T 
Sharp Zaurus 	Nokia 9500 	Casio W31CA 	Sony Ericsson M600 	Toshiba DRAPE 
Sony Ericsson P800 	BenQ P30 	Casio W21CA II 	Hitachi W41H 	Casio W43CA 
Sharp Zaurus 	Nokia 7700 	ZTE e3 	Casio W41CA 	Sanyo W43SA 
Psion Revo 	Kyocera PS 900 	Motorola M1000 	Sony Ericsson W41S 	Sony Ericsson W43S 
Nokia 9210 	Sharp SL-6000 	Motorola A1010 	Motorola ROKR 2 	Kyocera W43K 
2000-2003	2004	2005	2006	2006 cont'd



Opera Mobile Widgets

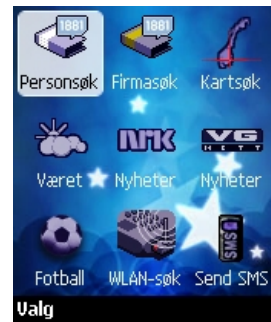
Multiplatform Web Applications
for Mobile Phones

Opera Mobile and Opera Widgets

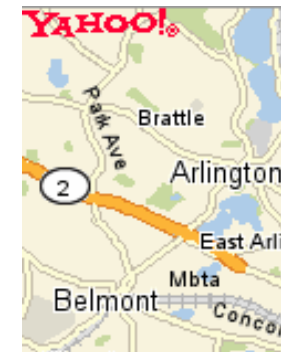
A regular mobile browser



Browser-based application platform



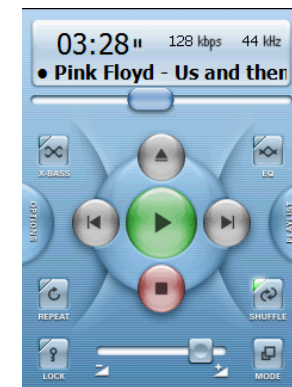
Premium service delivery



Service delivery



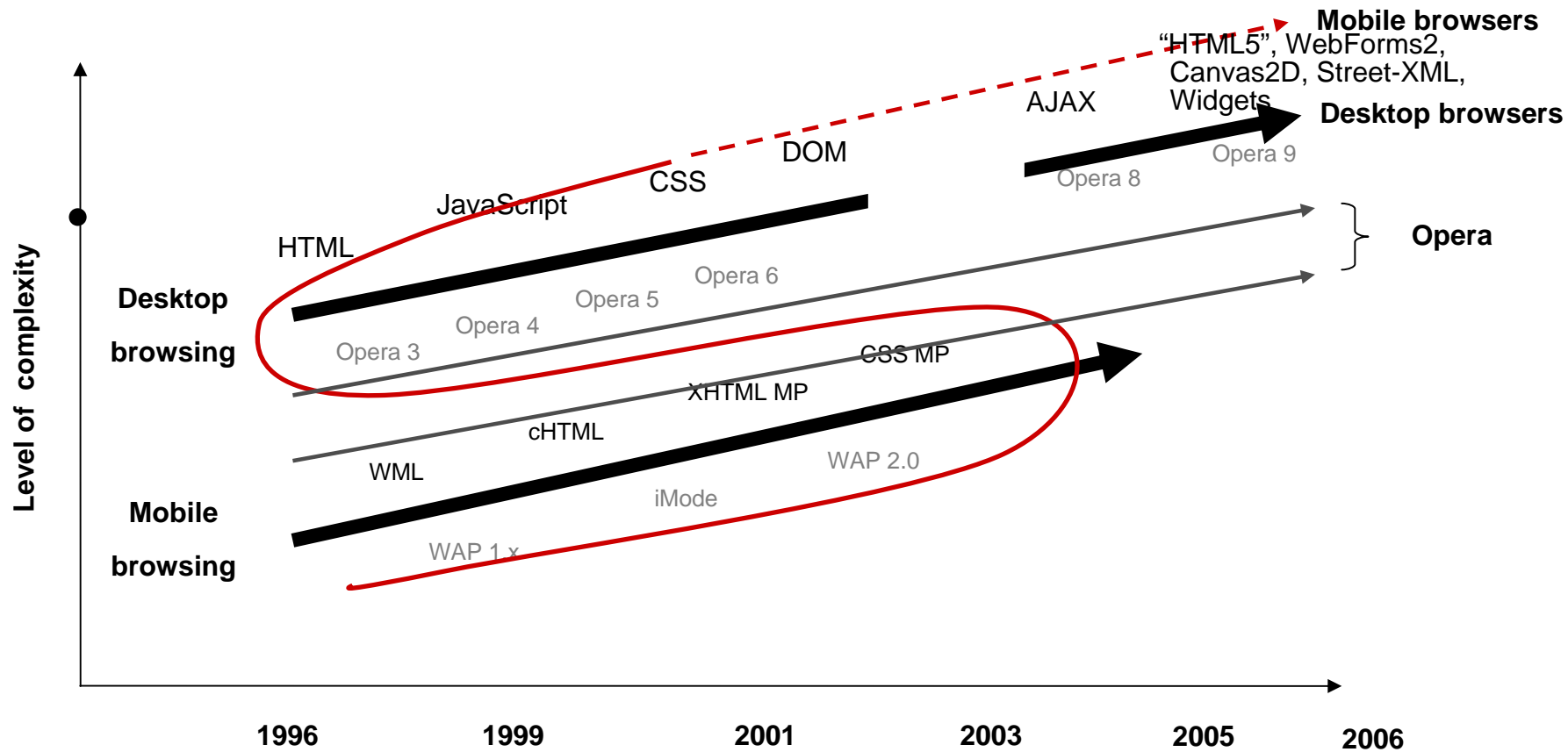
On-device Portal



Rich Media integration



WAP vs WEB





Proof of Concept

How Mobile Network Operators increased ARPU and competitive position using the Opera browser

Web Browsing in Different Market Environments

Competitive environment

Strategic implications



- **Fierce competition** vs. Vodafone & market leader NTT DoCoMo
- **Saturated market**
- 3G networks & high-tier handsets available

- Competitive edge required in order to **gain sufficient market share to compete with DoCoMo**

Web Browsing provides KDDI and T-Mobile with

- **an additional boost in Data ARPU and**
- **a competitive edge in an increasingly tough market**






























- **Incumbent** German operator with international operations
- **Duopoly** situation with Vodafone
- **Saturated market**
- 3G networks & high-tier handsets available

- Competitive edge required to **defend market leader position**



All KDDI EV-DO BREW Terminals Feature Opera

- 27 devices from 5 vendors shipped through November 2006
- KDDI enables their complete EV-DO portfolio

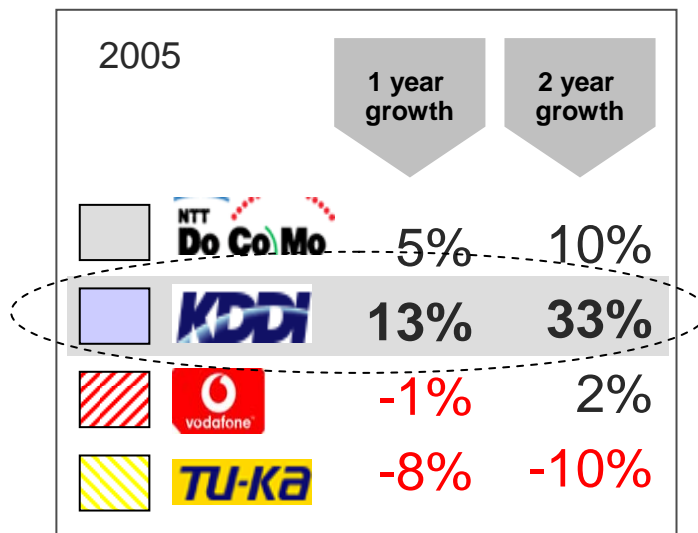
2004		2005		2006				
2H	1H	2H	1H		2H			
W21CA 	W21CA II 	W31CA 	W41CA 	W42CA 	W43CA 		CASIO	
	W31T 	W32T 	W43T 	W44T 	W45T 	W47T 	DRAPE 	TOSHIBA
		W32H 	W41H 	W42H 	W43H 			HITACHI
			W33SA II 	E02SA 	W42SA 	W43SA 		SANYO
			W41S 	W42S 	W43S 			Sony Ericsson
					W43K 	W44K 		KYOCERA
					W41SH 			SHARP



KDDI is Japan's Fastest Growing Carrier

- KDDI has always faced fierce competition from industry giants DoCoMo and Vodafone...
- ...but since the introduction of 1XRTT & EV-DO networks, KDDI has been Japan's growth leader in 2004 and 2005

Annual Revenue



Web Browsing with Opera Mobile has

- become a core service for KDDI's EV-DO based services
- and helped drive 2-digit growth rates in a mature and saturated market

Sources: Telecom Carriers Association Japan, KDDI IR

Web Browsing in Different Market Environments

Competitive environment

Strategic implications



- **Fierce competition** vs. Vodafone and market leader NTT DoCoMo
- **Saturated market**
- 3G networks & high-tier handsets available

- Competitive edge required in order to **gain sufficient market share to compete with DoCoMo**



- **Incumbent** German operator with international operations
- **Duopoly** situation with Vodafone
- **Saturated market**
- 3G networks & high-tier handsets available

- Competitive edge required to **defend market leader position**

Web Browsing provides KDDI and T-Mobile with

- **an additional boost in Data ARPU and**
- **a competitive edge in an increasingly tough market**

Web'n'walk - Operators moving towards HTML

1020:672 - T-Mobile SDA II webnwalk edition - Highlights - Opera


File Edit View Bookmarks Feeds Mail Chat Tools Developer Help

New page Compose message T-Mobile SDA II webnwal...

http://www.t-mobile-businessworld.de/ek/2ek_uhtj45thn48gKK/default.asp?1

T-Mobile SDA II web'n'walk edition

Der neue SDA II



Designed for Windows Mobile™

Highlights

Übersicht

- Der SDA II von T-Mobile bietet elegantes Design und viele praktische Funktionen in der gewohnten Windows®-Umgebung zu einem erstaunlich günstigen Preis.
- Der SDA II (Smart Digital Assistant) läuft mit einem Microsoft Windows®-Betriebssystem. Nun können Sie Ihre Geschäfte mit Outlook, Word, Excel, PowerPoint und dem PDF Viewer auch von unterwegs erledigen.
- Zusätzlich bietet der SDA II diverse Multimedia-Anwendungen wie z.B. Foto- und Video- MMS, ein E-Mail-Programm oder den integrierten MP3-Player, und wird so zum idealen und vielseitigen Multimedia-Begleiter.
- Und im Gegensatz zu anderen Smartphones ist der SDA II von T-Mobile kompakt und leicht.

Klicken Sie bitte auf ein Symbol.

1 / 12

zurück weiter

.. T .. Mobile ..

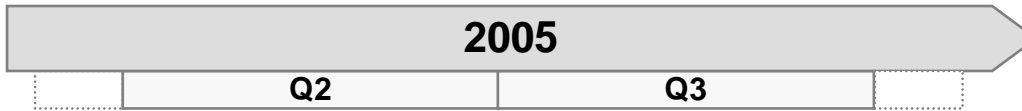
© T-Mobile 2005

BusinessWorld

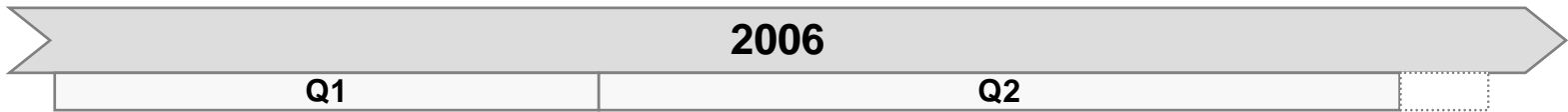
Web 'n' Walk Utilizes Opera Mini to Enable Additional Handsets



Opera
Mobile
Browser



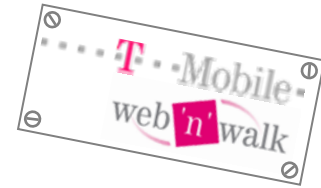
Opera
Mini



Opera Transformed Portal Browsing Into Full Web Browsing

Start page offers all T-Mobile and co-branded services in one UI:

- Google search
- Web links
- Portal services



....T-Mobile- Favourites

Home Links Services


Google

Search

Web Images UK only

Featured links

Sport	News
Sky Sports	BBC News
World Cup	FT.com
Shopping	Travel
Ebay	Lastminute
Amazon	Trainline
Information	Entertainment
Scoot	Empire
The Onion	Filmnight
Technology	Health
IpodLounge	NHS Direct
Slash Dot	Diet



FIFA World Cup scores & news>

T-Mobile Services

[Videos](#)

[Games](#)

[Wallpapers](#)

[Realtones](#)

[My T-Mobile](#)

Help Terms

Web links

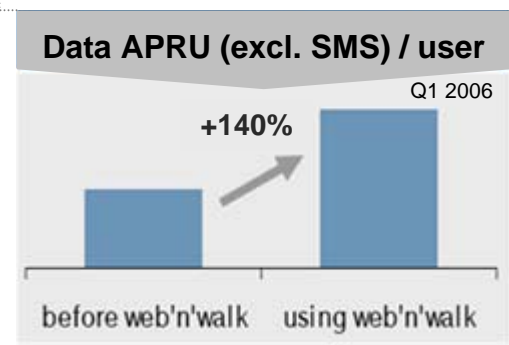
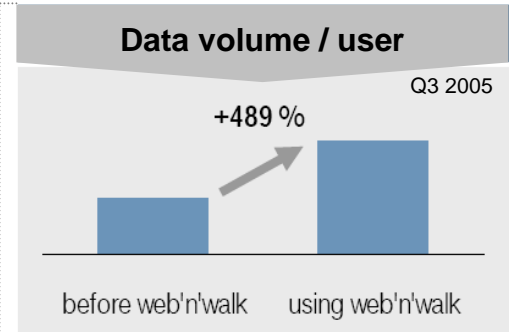
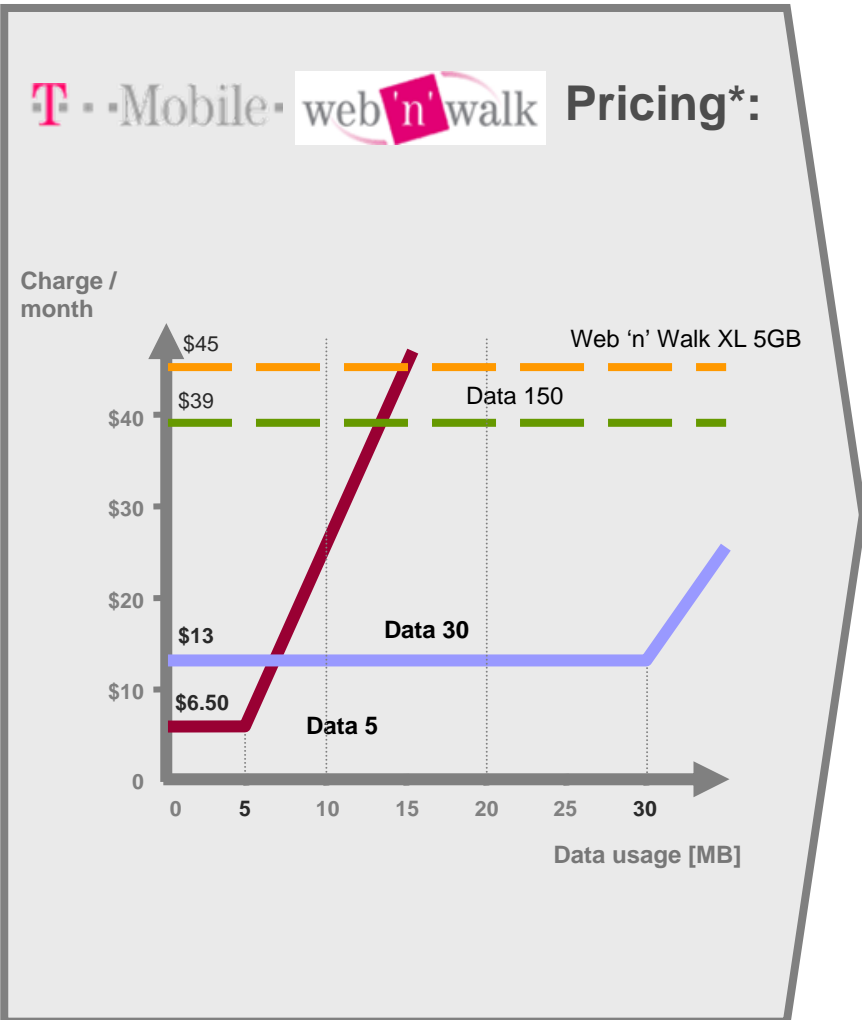
....T-Mobile- Favourites

Home Links Services

Sport	News
Arsenal fans	Business Week
BBC Sports	Telegraph
Cricket (Lords)	Sky News
Football365	Guardian
ITN Sports	ITN News
Newcastle United	MSN
Rivals.net	News0r
Sporting Life	Newswire
West Brom	USA Today
	Yahoo News
Shopping	Travel
Loot	First Great Western
Argos	GNER
Books Online	HandyTraveller
Cheapflights	Kizoom
Clickapps	London planner
Desperateseller	London Taxis
Dominos Pizza	London Underground
Edmunds2Go	National Rail
FedEx	RAC
John Lewis	Scot Rail
Information	Entertainment
Bookbrain	BBC Entertainment
Brit Info	Clickgamer
Currency converter	DrinkBoyMobile
Find a property	DrownedinSound
Jobsite	ENTS24
MapQuest	Filmnight
MetCheck	F Secure
Mobile Genealogy	ITN Entertainment
Multimap	RadioFeeds
My T-Mobile	Vue Cinema
ReadingRoom	
StockCharts	
Yell.com	
Technology	Health
Geek.com	Diet veggie
iPodLounge	Net Doctor
Palm Info	Sushi Guide
Slash Dot	
The Gadqeteer	

Help Terms

T-Mobile International Web 'n' Walk Drives ARPU Increase



- Significant increase in ARPU after 1st quarter of launch
- Web 'n' walk customers were visiting 330 Internet pages per month

* Example T-Mobile Germany. This offer includes use of PC modem connection and is in addition to any voice plan

Opera Powered Solutions
Proof of Concept continued from Opera for
'Devices' point of view ...

Sony Mylo



The best Internet experience on any device

Archos 604 WiFi & PMA400



"Opera is a very valuable partner for us and its browser is an asset to our product."
- **Henri Crohas, ARCHOS Founder & CEO**

Nokia 770



"In short, the Nokia 770 offers by far the best Internet browsing experience of any handheld device I've ever used."

- **Eric Bangeman, ArsTechnica.com**

Nintendo Wii



"For our Wii console launch in 2006, we required a browser that was fast and secure with support for the latest standards including AJAX. Opera proved perfect for our purposes and is an exceptional addition to both the Nintendo DS and the Wii console."

- **Genyo Takeda, Senior Managing Director and General Manager, Integrated Research & Development Division, Nintendo Co., Ltd.**

Nintendo DS & DS Lite



"Opera exceeded our expectations with its user friendly interface, quick access to all your favorite sites, ease of use and, most importantly, in making the best use of the Nintendo DS system's unique double screens and touch screen features. Opera is an important partner for Nintendo in our efforts to further expand the users of the Nintendo DS."

- Masaru Shimomura, Deputy General Manager of Nintendo's R & D Department

Amino AmiNET103,110,125,125i,130



"Its industry-leading support for the W3C Web standards and its remarkable performance make Opera an attractive choice for better browsing and advanced user interfaces on Amino's AmiNET110 and our upcoming next generation set-top boxes."

- Roy Kirsopp, VP & General Manager, Amino

Iwatsu Corporate IP Phone Solution Including Opera Powered Phones by Quanta



Thales TopSeries In-flight Entertainment



"The Opera product is an excellent fit to our system architecture. It provides the flexibility and utility that our customers are asking for."

- **Brad Foreman, Vice President and General Manager for Thales**

Dreampark Dreamgallery IPTV Solution



THANK YOU!

kai.leppanen@opera.com

Mobile: +47 4040 1485

Please download **Opera 9** and **Opera Mini** from
www.opera.com

