



Cisco Visual Networking Index (VNI)

Global IP Traffic Forecast 2009–2014

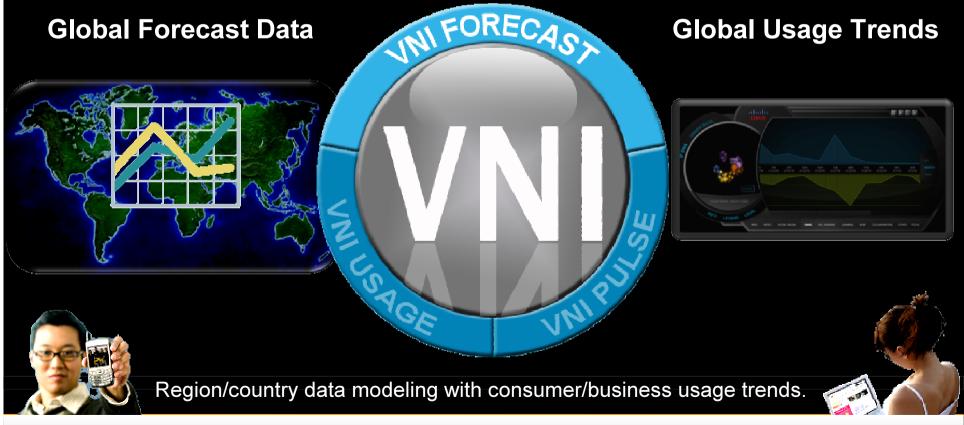
With North America Highlights



Cisco VNI Global IP Traffic Forecast_2010 © 2010 Cisco Systems, Inc. All rights reserved. Cisco Confidential

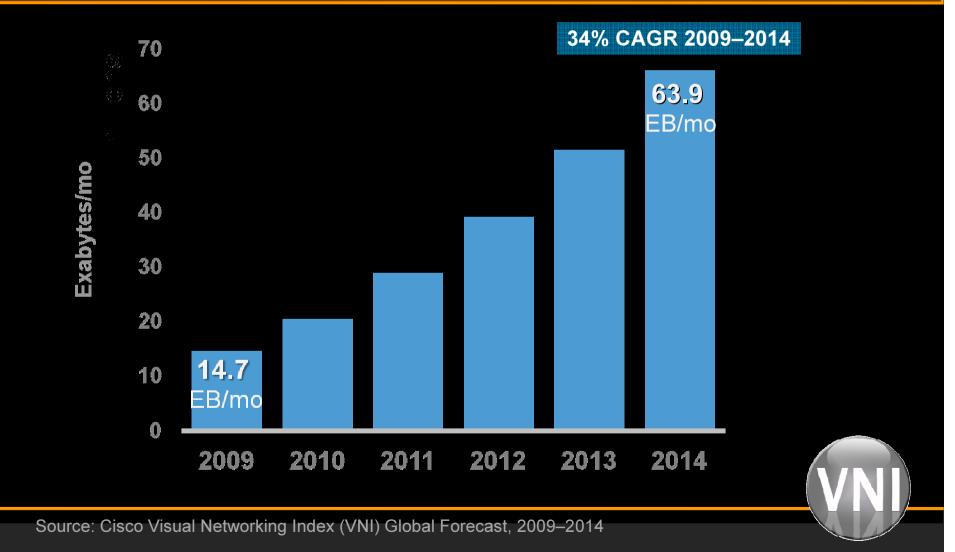
Cisco Visual Networking Index (VNI) Expanding the scope of Cisco's IP Thought Leadership

The Cisco VNI Global Forecast methodology relies upon various independent analyst forecasts as well as fixed and mobile data usage surveys.

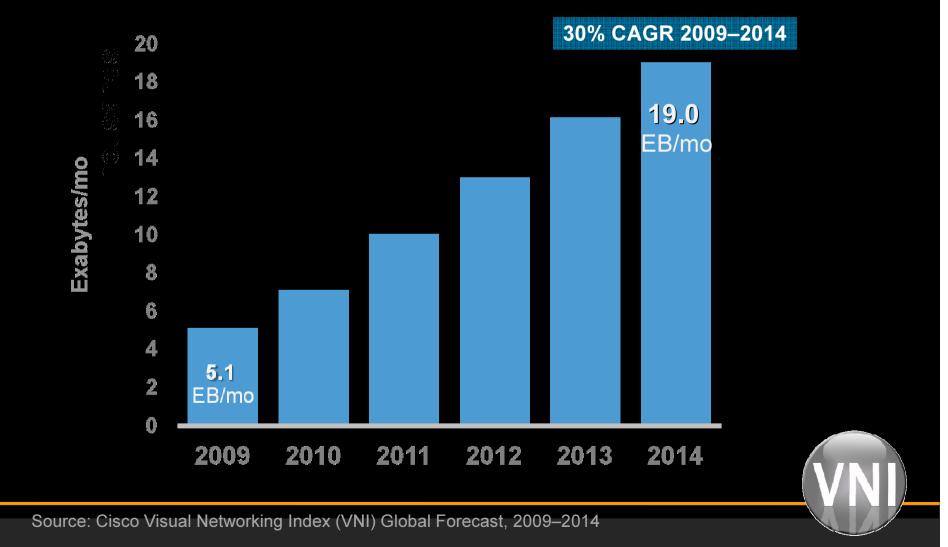


Source: Cisco Visual Networking Index (VNI) Global Forecast, 2009–2014

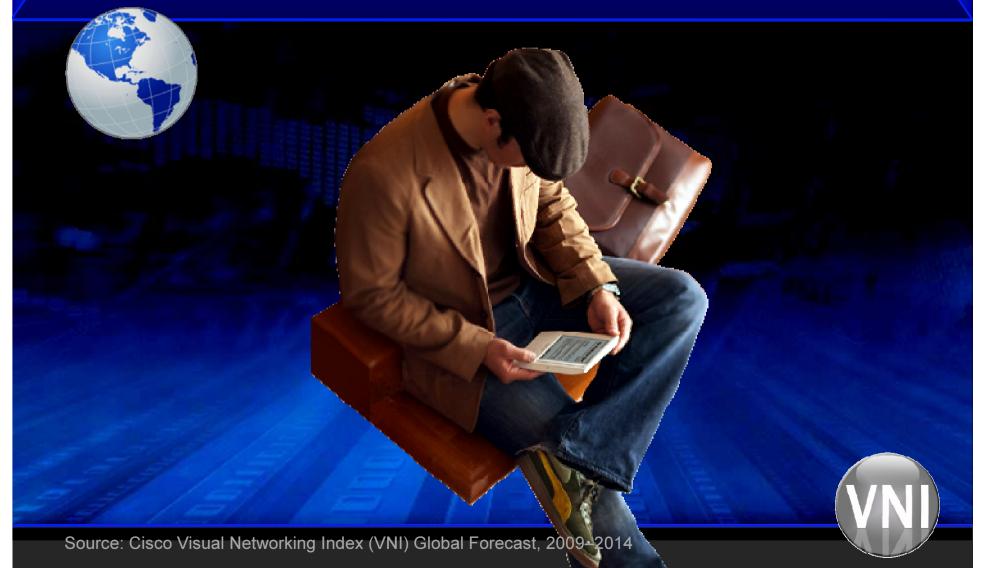
Global IP Traffic Growth IP traffic will increase 4.3 fold from 2009–2014 In 2014, global IP traffic will reach 3/4 of a zettabyte



North America IP Traffic Growth IP traffic will increase 3.7 fold from 2009–2014



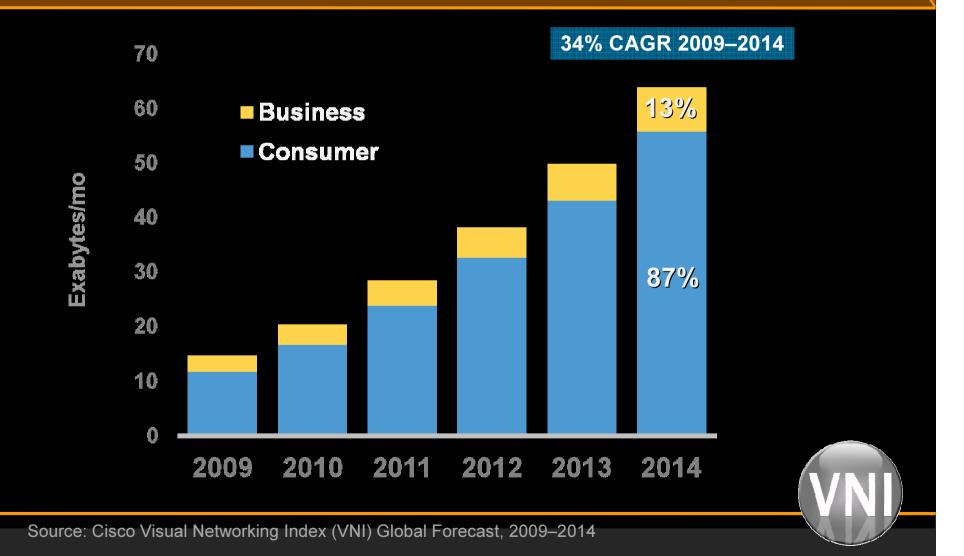
North America will generate the most IP traffic by 2014 19 exabytes/month by 2014, 30% CAGR, 3.7X growth



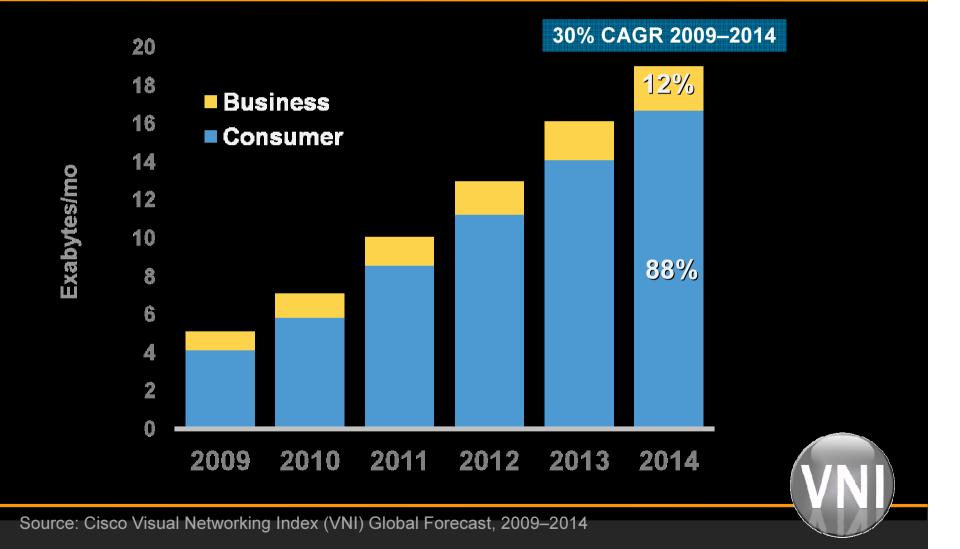
Latin America will be the fastest growing traffic region 3.5 exabytes/month by 2014, 51% CAGR, 7.9X growth

Source: Cisco Visual Networking Index (VNI) Global Forecast, 2009–2014

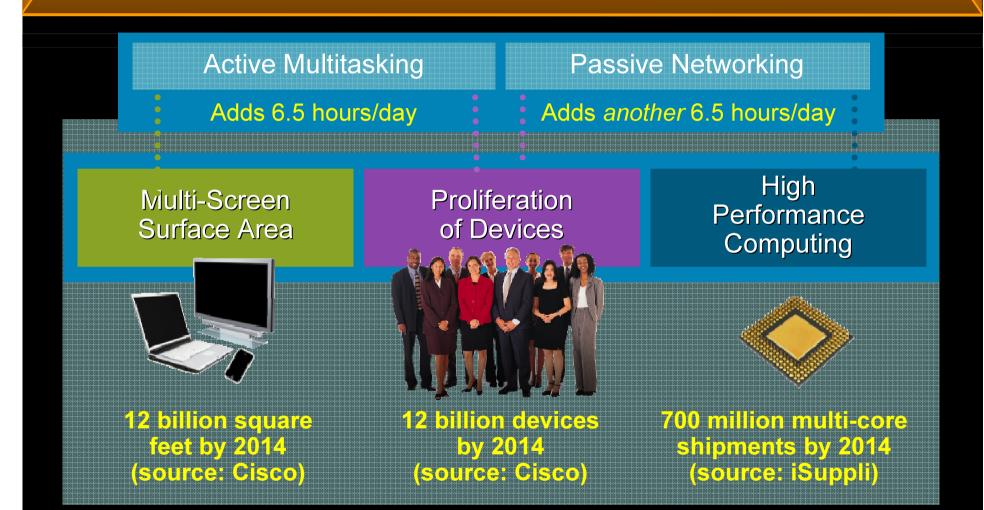
Global IP Traffic Growth Consumer IP traffic outpaces business IP traffic (traffic volume and growth rate)



North America IP Traffic Growth Consumer IP traffic outpaces business IP traffic (traffic volume and growth rate)

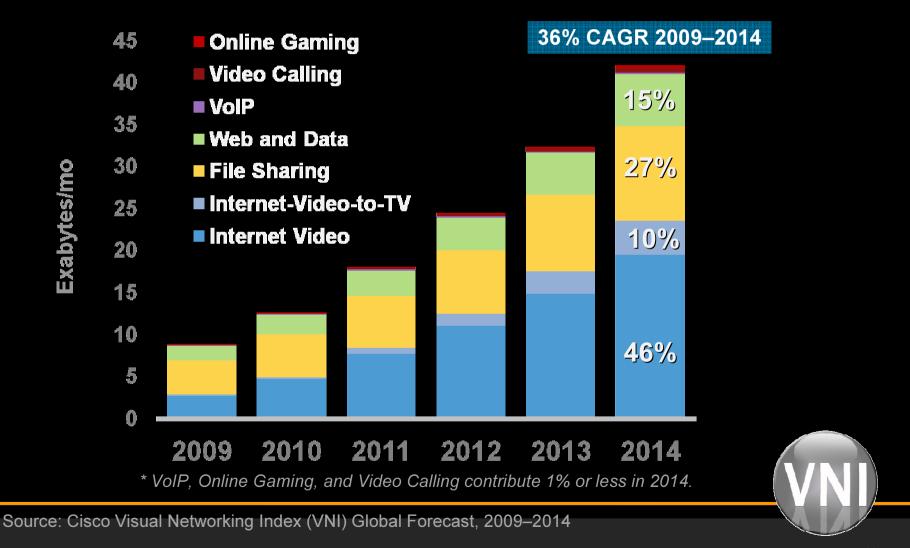


Evolving Dynamics of Hyperconnectivity Person-to-person, person-to-machine, machine-to-machine

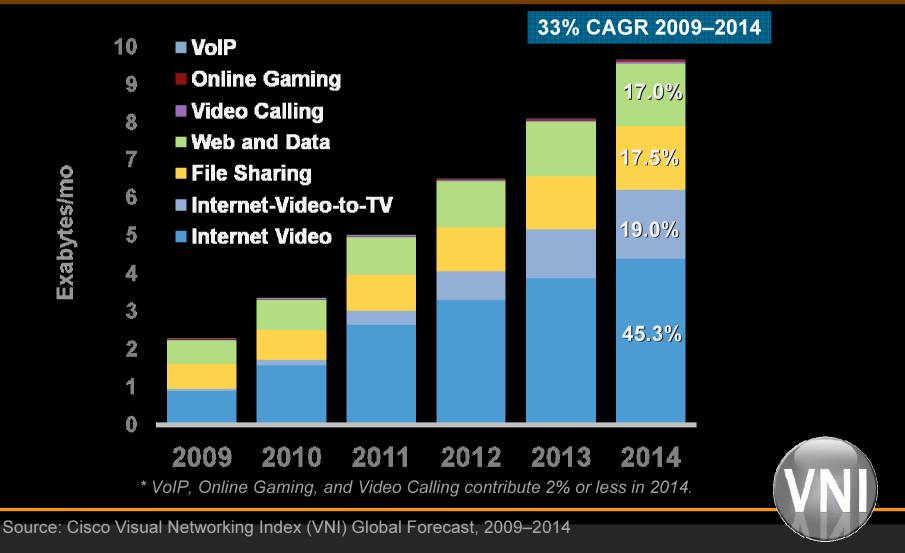


Source: Cisco Visual Networking Index (VNI) Global Forecast, 2009–2014

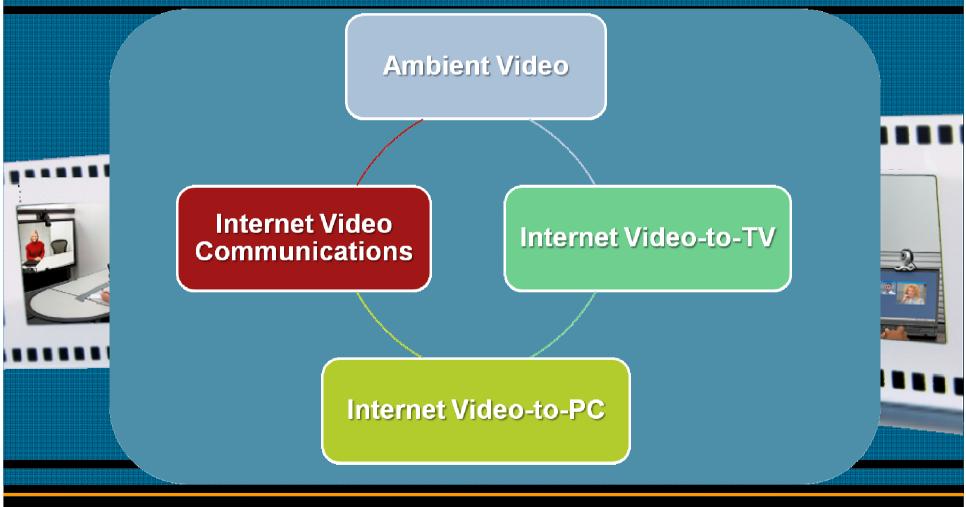
Global Consumer Internet Traffic Growth Video replaces P2P as top traffic type in 2010



North America Consumer Internet Traffic Growth Video replaces P2P as top traffic type in 2010

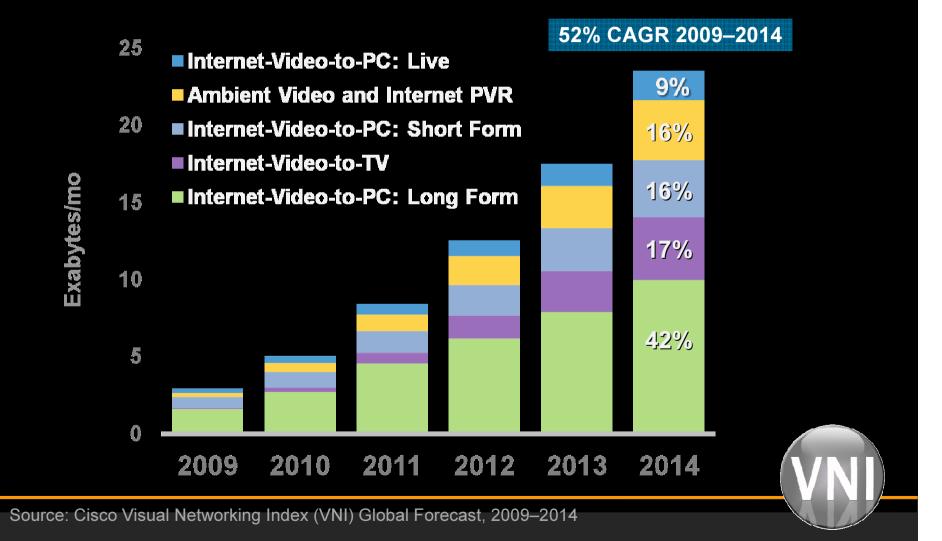




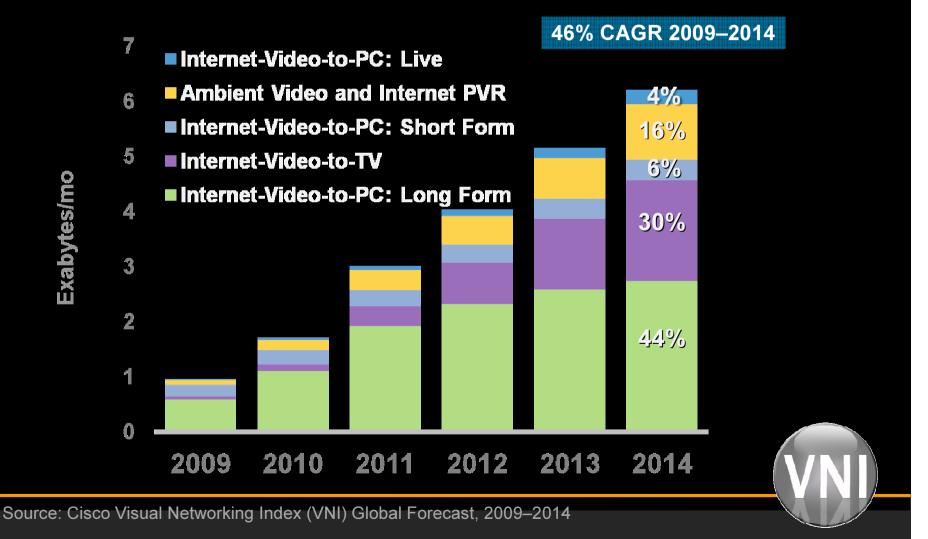


Source: Cisco visual networking index (VNI) Global Forecast, 2009–2014

Consumer Internet Video Composition Video traffic increasingly driven by live video and TV



North America Internet Video Composition Video traffic increasingly driven by Internet-Video-to-TV

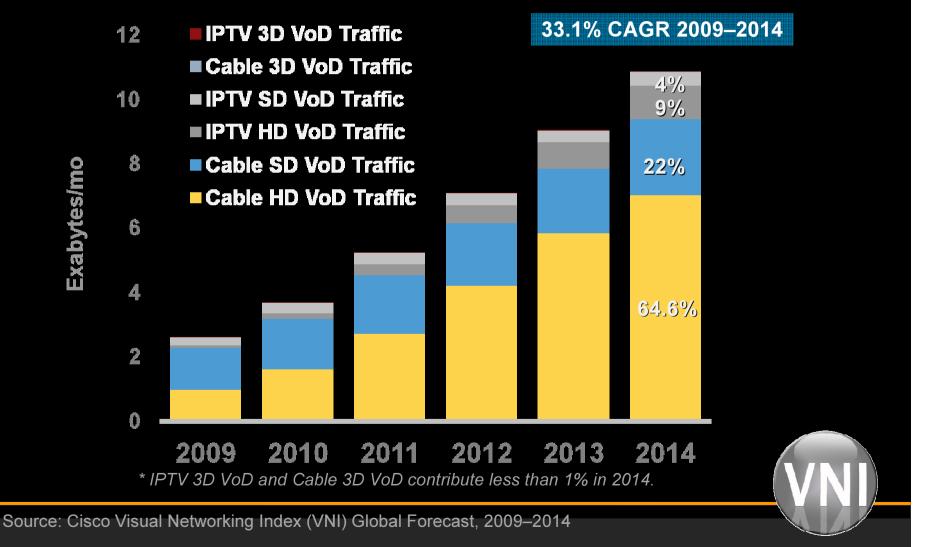


High Growth Video Sites in the U.S. Long-Form Content Has the Highest Growth

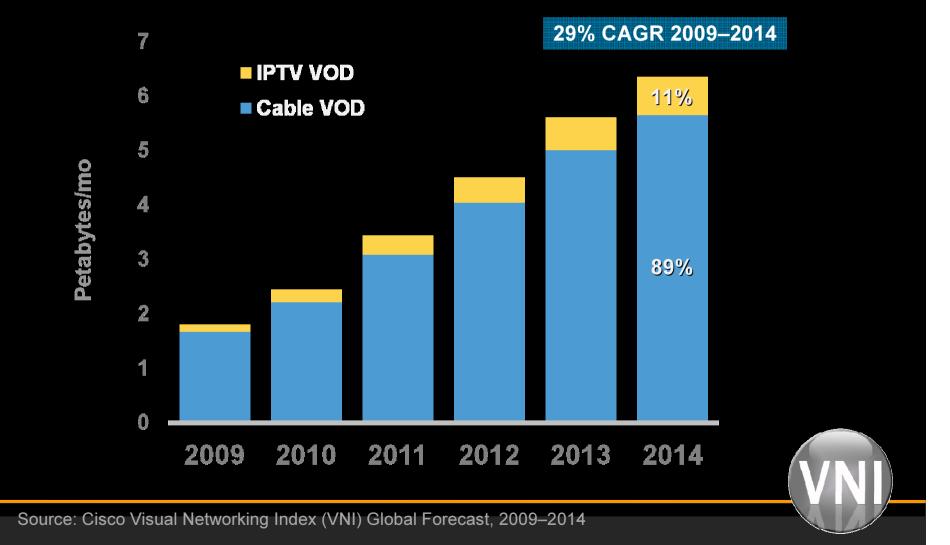
(millions of video streaming minutes per month)	2009	2010	% change
Netflix.com	76	5,984	7,918%
ABC Family	32	745	2,333%
Wisevid.com	11	221	1,923%
Ustream.tv	6	85	1,415%
Sony Online	14	138	968%
Tudou Sites	35	339	952%
Facebook.com	74	623	839%
CollegeHumor Media	19	156	814%
Apple Inc.	33	180	541%
PBS	28	134	479%
Blip.tv	29	137	475%
ESPN	69	221	318%
Dailymotion.com	150	469	313%
NBC Universal	159	484	304%
Viacom Digital	447	1,345	300%
Hulu	2,192	5,727	261%
Google/YouTube	14,822	33,484	226%
Megavideo.com	1,882	4,197	223%

Source: comScore VideoMetrix, 2010

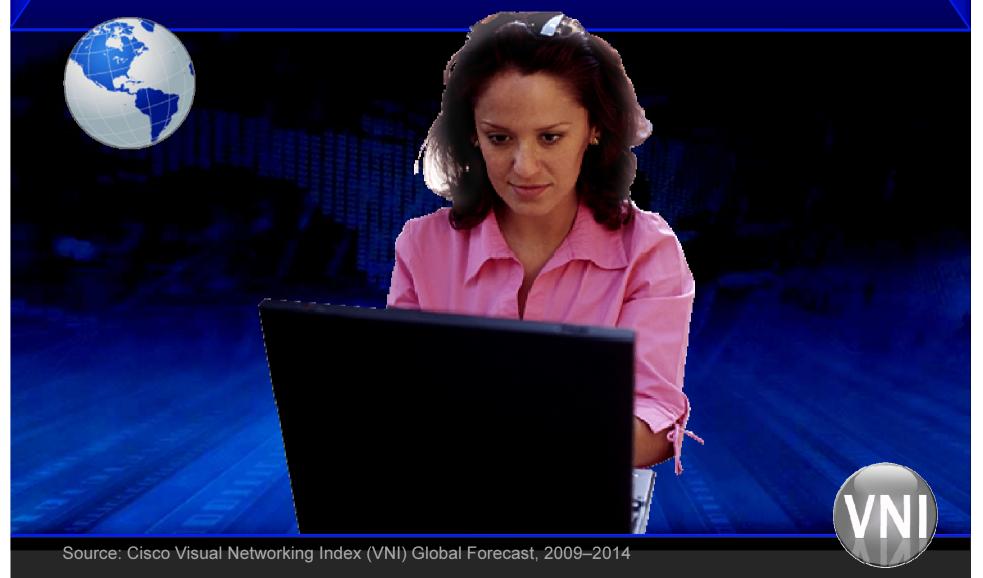
Global Consumer VoD Mix VoD traffic driven by growth of HD



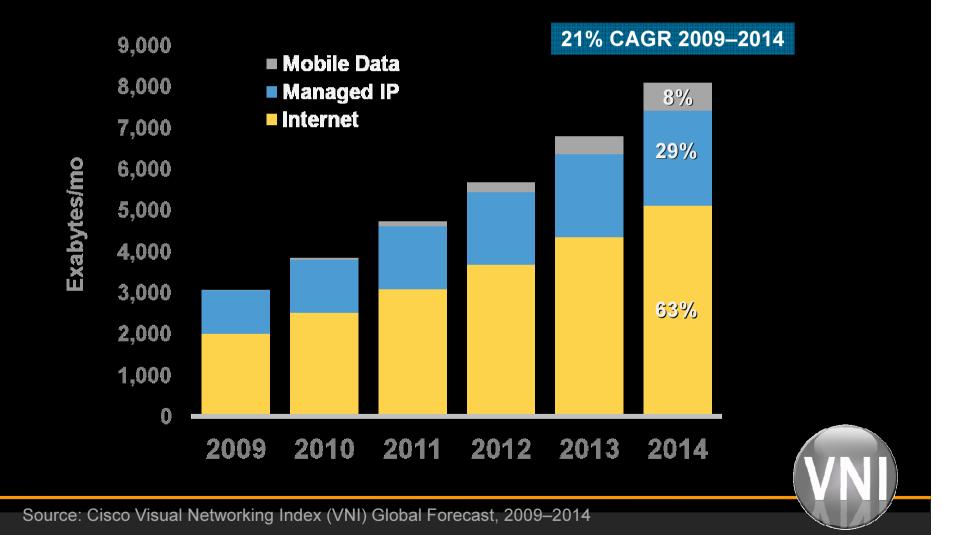
North America Consumer VoD Mix VoD traffic driven by growth of HD



If all video minutes were 3D in 2014, the video forecast would be 3X higher (from 38 EB to 111 EB per month).



Global Business IP Traffic Business IP to grow at a CAGR of 21%



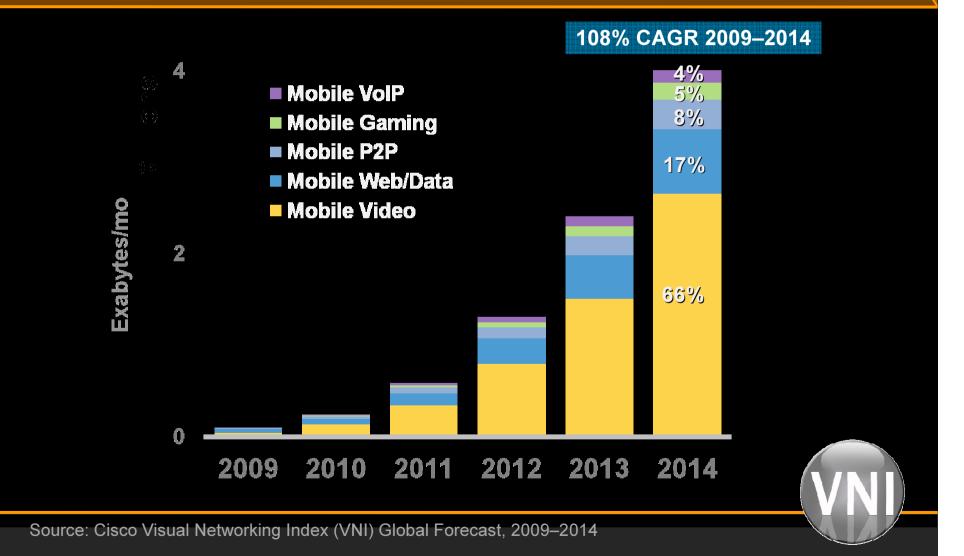
Web-based video conferencing is the fastest growing business sub-category; reaching 180-fold by 2014.

Source: Cisco Visual Networking Index (VNI) Global Forecast, 2009–2014

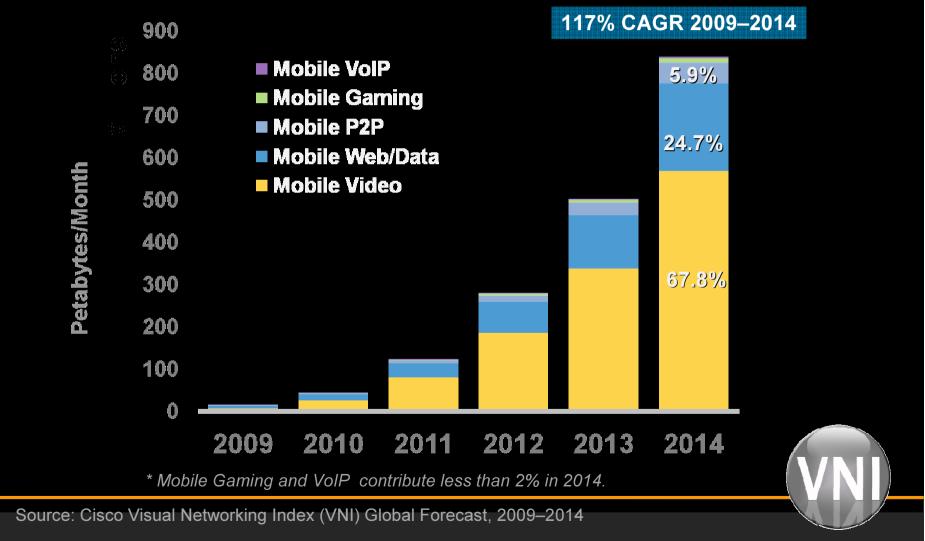
North America web-based video conferencing is the fastest growing business sub-category; reaching 93-fold growth by 2014.



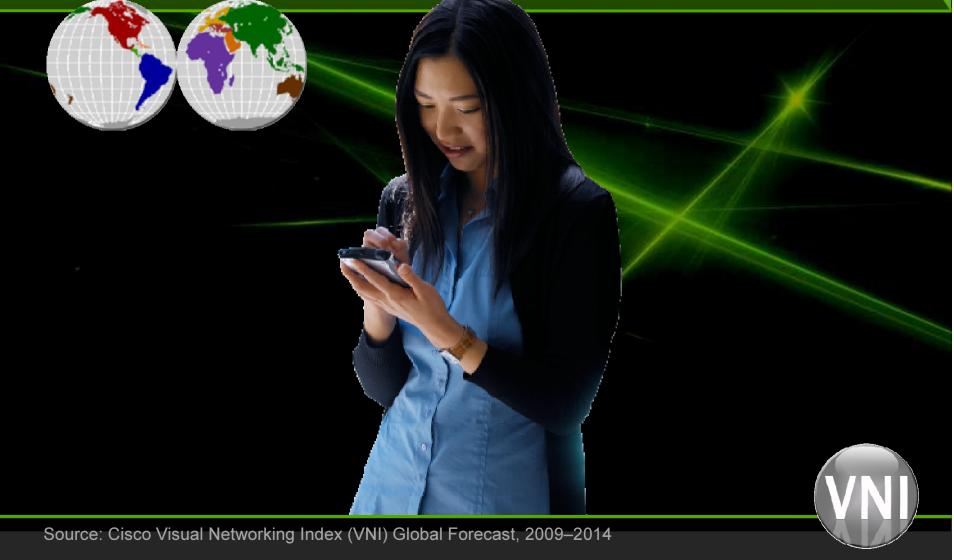
Global Mobile Data Traffic Growth Mobile data traffic will increase 39 fold from 2009 to 2014



North America Mobile Data Traffic Growth Mobile data traffic will increase 48 fold from 2009 to 2014



Global mobile data traffic is growing 3.2 times faster than fixed data traffic.



Cisco VNI Forecast Update: 2009–2014 Summary / Key Highlights



Total IP Traffic 63.9 Exabytes per month by 2014

Annual global IP traffic will reach 3/4 of a zettabyte by 2014

Internet

47.2 Exabytes per month by 2014



Internet video will surpass P2P as top traffic type by end of 2010

Managed IP

13.2 Exabytes per month by 2014

Web-based video conferencing will grow 180-fold from 2009-2014

Mobile Data3.5 Exabytes per month by 2014

- Mobile video will increase 66-fold from 2009 to 2014

Source: Cisco visual networking index (VNI) Global Forecast, 2009–2014

Cisco VNI Free Resources URL: http://downloads.ciscovnipulse.com

ululu cisco.

Cisco Visual Networking Index Free Resources Empowering consumers with a better understanding of individual and global network use.



Source: Cisco Visual Networking Index (VINI) Global Forecast, 2009–2014

Public Cisco VNI Web Site URL: http://www.cisco.com/go/vni

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Send Cisco VNI Forecast inquiries to: traffic-inquiries@cisco.com

Source: Cisco visual Networking Index (VNI) Global Forecast, 2009–2014

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