

The Future of Healthcare IT

Devin Akin, CEO Divergent Dynamics, Inc.



Divergent Dynamics, Inc.

Divergent Dynamics CEO Devin Akin named to TWW Top 100 Wireless Experts for 2014 www.todayswirelessworld.com/top100/

> Devin K. Akin CEO, Founder Devin@DivDyn.net

Devin Akin

Wireless

- ♦ 15 years of Innovative Experience in Wi-Fi
- Co-founder/CTO, The CWNP Program (cwnp.com), 2001-2009
- Chief Wi-Fi Architect, Aerohive Networks 2009-2013
- Network Architect, Author, Speaker, Educator, Blogger
- Advisor to most Wi-Fi manufacturers at some point since 2001

Divergent Dynamics

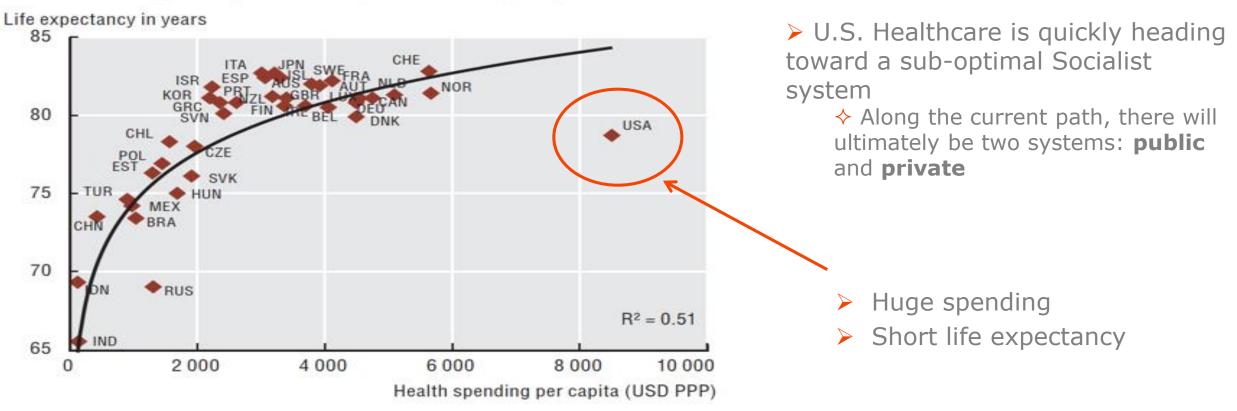
- ♦ Wi-Fi Advisory & Education Services
- ♦ Wi-Fi Performance, Security, & Compliance Analysis
- ♦ Wi-Fi Design, Integration, Remediation, Optimization





Healthcare Finance Update

1.1.3. Life expectancy at birth and health spending per capita, 2011 (or nearest year)



Source: OECD Health Statistics 2013, http://dx.doi.org/10.1787/health-data-en; World Bank for non-OECD countries.

StatLink http://dx.doi.org/10.1787/888932916040





Healthcare Finance Update



Health expenditure per capita varies widely across OECD countries. The United States spends two-and-a-half times the OECD average

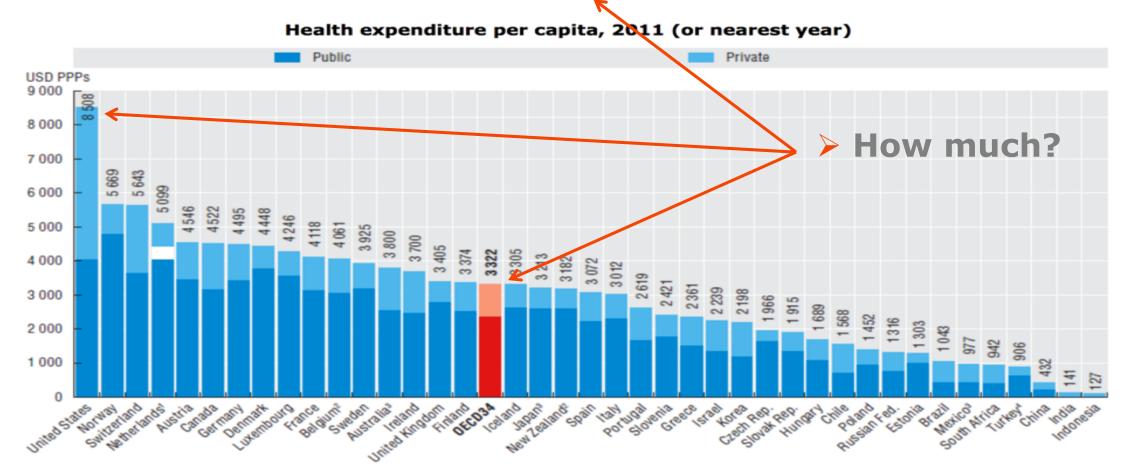




EXHIBIT ES-1. OVERALL RANKING



COUNTRY RANKINGS

Middle		1				**					
Bottom 2*	*					*				\sim	
	AUS	CAN	FRA	GER	NETH	NZ	NOR	SWE	SWIZ	UK	US
OVERALL RANKING (2013)	4	10	9	5	5	7	7	3	2	1	11
Quality Care	2	9	8	7	5	4	11	10	3	1	5
Effective Care	4	7	9	6	5	2	11	10	8	1	3
Safe Care	3	10	2	6	7	9	11	5	4	1	7
Coordinated Care	4	8	9	10	5	2	7	11	3	1	6
Patient-Centered Care	5	8	10	7	3	6	11	9	2	1	4
Access	8	9	11	2	4	7	6	4	2	1	9
Cost-Related Problem	9	5	10	4	8	6	3	1	7	1	11
Timeliness of Care	6	11	10	4	2	7	8	9	1	3	5
Efficiency	4	10	8	9	7	3	4	2	6	1	11
Equity	5	9	7	4	8	10	6	1	2	2	11
Healthy Lives	4	8	1	7	5	9	6	2	3	10	11
Health Expenditures/Capita, 2011**	\$3,800	\$4,522	\$4,118	\$4,495	\$5,099	\$3,182	\$5,669	\$3,925	\$5,643	\$3,405	\$8,508

Notes: * Includes ties. ** Expenditures shown in \$US PPP (purchasing power parity); Australian \$ data are from 2010.

Source: Calculated by The Commonwealth Fund based on 2011 International Health Policy Survey of Sicker Adults; 2012 International Health Policy Survey of Primary Care Physicians; 2013 International Health Policy Survey; Commonwealth Fund National Scorecard 2011; World Health Organization; and Organization for Economic Cooperation and Development, OECD Health Data, 2013 (Paris: OECD, Nov. 2013).



Business 101



KEEP THE BOTTOM LINE IN CHECK

CAN'T CUT YOUR WAY TO LONG-TERM SUCCESS

3 FOCUS ON THE TOP LINE

DIVERSIFY (CREATE NEW LINES OF BUSINESS)

SCAN THE PERIPHERY

THE FAST EAT THE SLOW

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Healthcare Finance Update

- Large healthcare providers (e.g. HCA, Tenet, Ascension) are currently acquiring smaller ones and profiting by:
 - Cutting Costs
 - Increasing Efficiency
- A focus on the bottom line only goes so far, for so long
 - Diminishing Returns
 - Negative impact on staff and customers
- In a for-profit system, costs will always rise over time
- Eventually there must be a focus on top-line revenue
 - Alternative income sources are the only viable long-term answer



Lines of Business



We've Been Here Before

GAMING (GAMBLING) INDUSTRY

AIRLINE INDUSTRY

WALMART

3

DISNEY

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Gaming (Gambling) Industry: 1989



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Las Vegas Transformation: From Sin City to Family City

By ROBERT REINHOLD, Special to The New York Times Published: May 30, 1989

Never has Las Vegas, the glittery and gaudy capital of American gambling, faced more competition for the gambling dollar and yet never have its casinos been more popular - and profitable. Las Vegas has responded to the new realities of gaming by trying to transform itself from sin city into family entertainment zone, where wagering seems as routine as taking in a movie.

Consider the new Gold Coast Casino, a virtual supermarket of games. It has 72 lanes of bowling, two first-run movie houses and a clean, modern day-care center where grandmotherly looking women in yellow smocks mind the youngsters until midnight while their parents pump quarters into 2,000 video poker and slot machines, fight the odds at blackjack and keno or cheer on the ponies on the big television monitors from Belmont, Hollywood Park, Churchill Downs and other race tracks all over the country.

"We are dealing more with the masses of people now," said the casino's part-owner, Michael Gaughan, whose family has run casinos here since 1951, when card and dice "table" games were the main trade. "In the early days we had only a few slot machines for the wives."

Even as other parts of Nevada have suffered from out-of-state gambling competition, the Las Vegas Strip booms. Despite new competition from Atlantic City and lotteries run by 28 states and the District of Columbia that drew an estimated \$15 billion to \$17 billion last year, the number of visitors to Las Vegas swelled to 17.2 million last year, nearly a 50 percent increase over 1982. And since 1984, gross casino revenues in Clark County (mainly Las Vegas) have grown from 41 percent to 44 percent of the American casino gambling total; in 1988, casinos here raked in \$3.1 billion before taxes and expenses.

2014 CWNP Wi-Fi Conference ~ 15 Years in Wireless

http://www.nytimes.com/1989/05/30/us/la s-vegas-transformation-from-sin-city-tofamily-city.html

Now, It's About Experience



- Transitioned from gambling halls to entertainment & experience
- From the world's largest Ferris wheel to mind-numbing buffets to the most opulent spas, gambling in Las Vegas is often not the main attraction





Gaming Industry: 2014



- Las Vegas Strip resorts have more space devoted to restaurants and shopping than slots and tables
 - And in some, RETAIL generates more revenue per square foot than GAMBLING
- Is it really the "Gaming" vertical market now?
 - Or is it the Entertainment vertical with some gambling thrown in?

THE FORUM SHOPS AT CAESARS



ABOUT THE FORUM SHOPS AT CAESARS

he Shopping Wonder of the World," The Forum Shops are a must-see Caesars Palace shopping destination that includes approximately 160 stores representing some of the biggest names in fashion. The Forum Shops has continued to grow, most recently adding 175,000 sq. ft. and expanding the Las Vegas shopping mall all the way out to the Strip.

Las Vegas Restaurants at The Forum Shops include Spago, The Palm, Sushi Roku, Max Brenner, Trevi, Cheesecake Factory and Planet Hollywood.

GARDEN OF THE GODS POOL OASIS



ABOUT GARDEN OF THE GODS POOL OASIS



pacious, elegant and stately, the Garden of the Gods Pool Oasis is a collection of exclusive watering holes, decadent cabanas and palatial sunbathing spots is the ultimate warm-weather destination, no matter whether you bow before the gods of the sun or the water.

Each of the Garden of the Gods' six Las Vegas pools offers a unique and distinctive experience for sun worshippers as well as those who would prefer to make a splash. You're sure to find one perfect for your mood.



Airports: Converting Idle Time



- Converting idle time into billions in revenue
 - Food / Drink
 - Retail shops
 - Entertainment



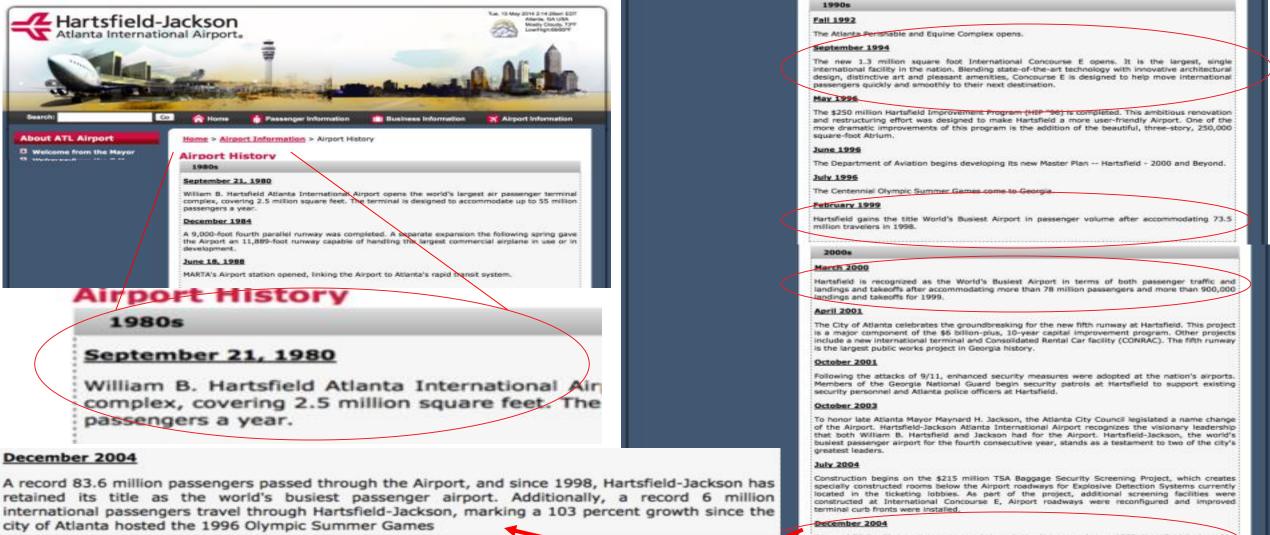






Airports: Build Them. They Will Come.





A record 83.6 million passengers passed through the Airport, and since 1998, Hartsfield-Jackson has retained its title as the world's busiest passenger airport. Additionally, a record 6 million international passengers travel through Hartsfield-Jackson, marking a 103 percent growth since the city of Atlanta hosted the 1996 Olympic Summer Games



Airports: We built them. They came.





millions US dollars

current prices

25 000

20 000

15 000

10 000

5 000

Hartsfield–Jackson Atlanta International (ATL)

Year: 2012 Trafic rating : A-

Very large airport | world rank : #1 (in passengers)

Country :	USA (rank : #1)	Last impact study found on this airport Hartsfield–Jackson Atlanta International (ATL, 2009, Comparability with our framework)	About our quantification
	North America (rank : #1)		
Geographic area :		Direct employees declared in the study : 68 267 (delta rate with our results : -8%)	NO Local activities analysis
Sub-region :	Northern America (rank : #1)	Study : Connecting the region to the world	YES Input-Output models
		Author : Hartsfield–Jackson Atianta International Airport	NO Passengers survey
Revenue Passengers :	95.5 million		
Commercial flights :	740 thousand	Confidence in our evaluation [-25%;+25%]	
Freight & Mail metric tons (SI) :	646 thousand	To reduce the confidence interval, please contact us to have an upgrade analysis	contact@ecquants.com

(millions, current)	US dollars	% of total	
TOTAL Value added	23 716.5		6-32
Direct	10 272.9	43%	Treesed.
Indirect	4 149.2	17%	Carlos Charles
Induced	4 517.9	19%	CONTRACTOR MALES
Catalytic	4 776.5	20%	COLUMNED MARK

(in thousand)	Human ressources	% of total	
TOTAL Labor force	196.6		date 9
Direct	74.3	38%	100
Indirect	37.7	19%	
Induced	41.1	21%	
Catalytic	43.4	22%	

Value added produced by the airport (USD, current)

Employment produced by the airport Human reasources Output Catalytic 43 389 43 448 million US\$ Indirect Employees mio\$4 149 196.6



Super Walmart? Perhaps yes.





: The first Walmart Supercenter opened in Washington, MO, combining general merchandise and a full-scale supermarket to provide one-stop shopping convenience.

America's Top Retailer: Walmart was the nation's number-one retailer. As the Walmart Supercenter redefined convenience and one-stop shopping, *Every Day Low Prices* went international.

: The company celebrated its first **\$100** billion sales year.

: For the first time, Walmart topped the Fortune 500 ranking of America's largest companies.

: For the first time, Walmart exceeded \$400 billion in annual sales.

: The company employs 2.2 million associates worldwide and serves more than 200 million customers each week at more than 11,000 stores in 27 countries.



Walmart's Many Lines of Business







Walmart Partnerships









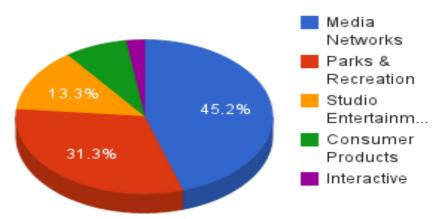




Disney: Starts Big, Gets Bigger



The Walt Disney Co - Revenue





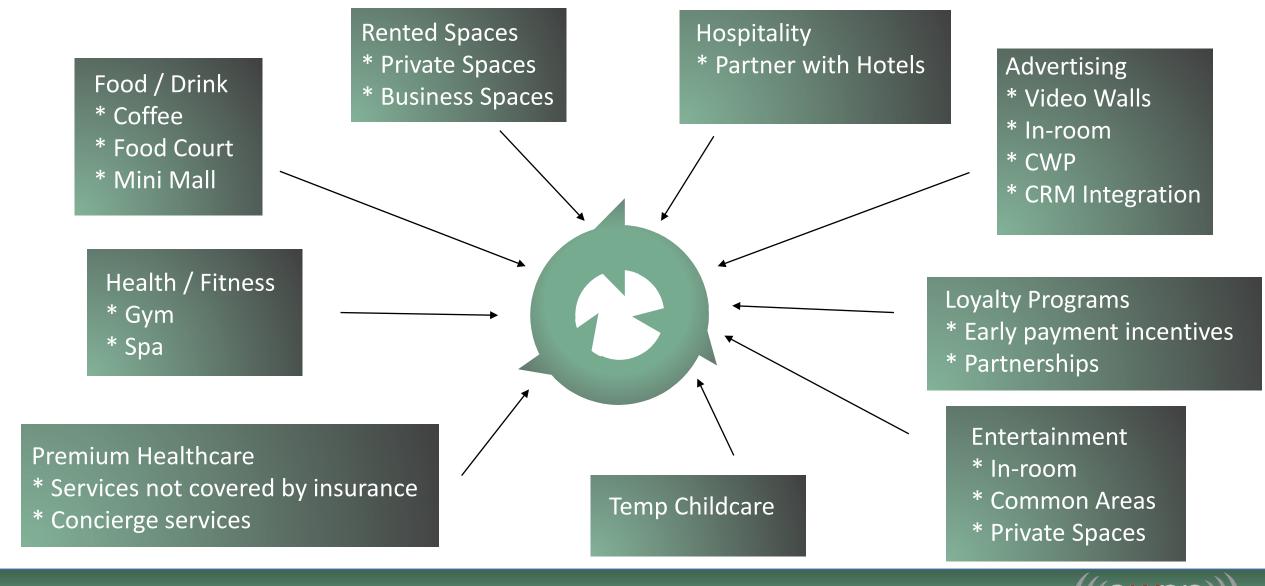






Mo Money





Healthcare Finance Update



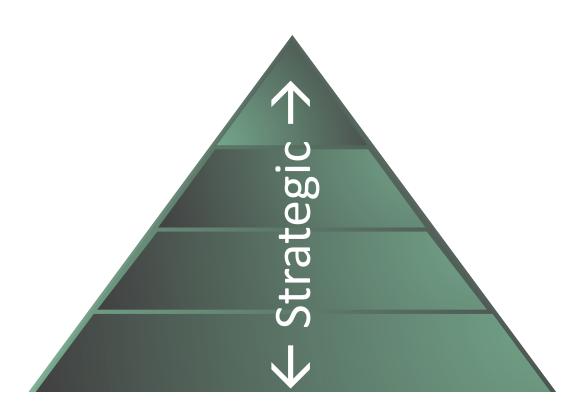
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- > Retailers are adding affordable healthcare products and services to their portfolio
 - ♦ This is direct competition for healthcare providers





Experiential Healthcare: Strategic



Bring Retail Practices to Healthcare

Healthcare + Retail = Higher Profits

Network = Cardiovascular System

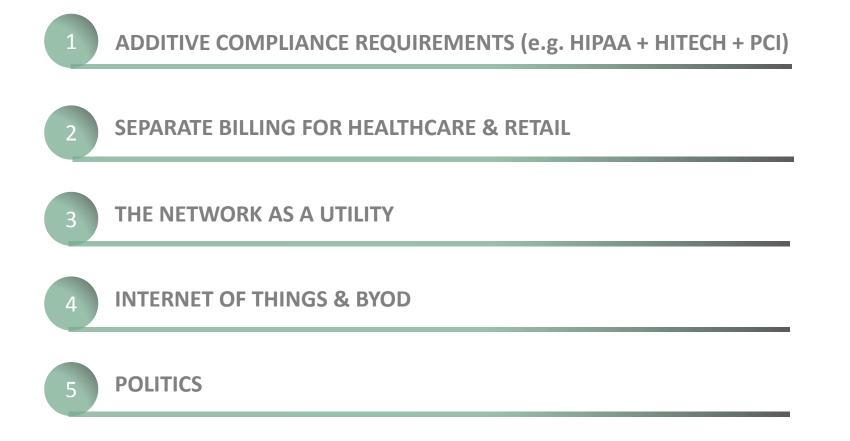
The Two-Step Approach

- Healthcare providers must add retail products and services to their portfolios to become (or remain) profitable
 - Tremendous profits are being missed
- Experiential Healthcare is a two-step approach to dramatically <u>increasing healthcare provider</u> <u>income</u>
 - Step 1 "Convert idle time to revenue."
 - Step 2 "Build it. They will come."



Expansion Challenges







Realistic Forward Movement



BUILD THE INFRASTRUCTURE ("Build It and They Will Come")

OFFER ADDITIONAL SERVICES

CONVERT IDLE TIME TO DOLLARS

CAPTURE REVENUE FROM "HAVE TO BE THERE" VISITORS



3

CHANGE PERCEPTION OF HEALTHCARE, PIECEMEAL



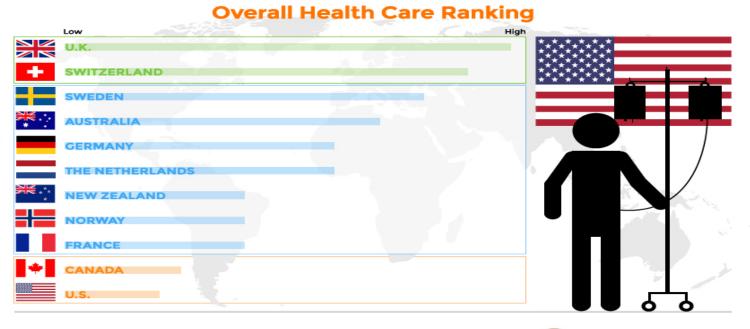
Not Interested?



U.S. HEALTH CARE RANKS LAST AMONG WEALTHY COUNTRIES

A recent international study compared 11 nations on health care quality, access,

efficiency, and equity, as well as indicators of healthy lives such as infant mortality.



Source: K. Davis, K. Stremikis, D. Squires, and C. Schoen, Mirror, Mirror on the Wall: How the Performance of the U.S. Health Care System Compares Internationally, 2014 Update, The Commonwealth Fund, June 2014.









