

Jim Carroll

Futurist, trends & innovation expert

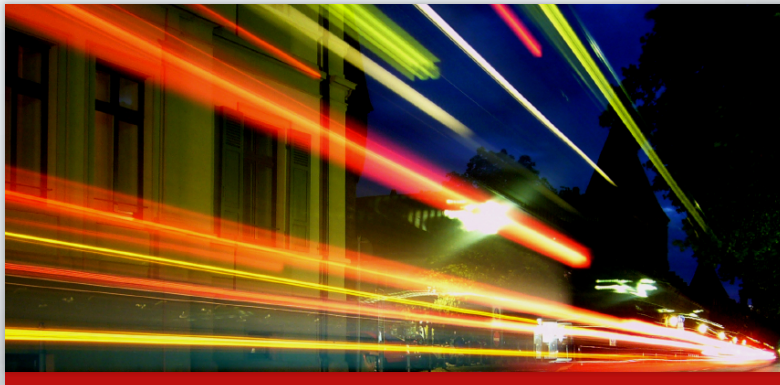


**What Do World Class Innovators
Do That Others Don't Do?**



“The world is changing very fast. Big will not beat small anymore. It will be the fast beating the slow.”

Rupert Murdoch



- The Walt Disney Company
- Northrop Grumman
- Swiss Innovation Forum
- Accenture
- Nestle
- Toshiba Australia
- Consumer Electronics Association
- Pearson PLC
- Rockwell Collins
- PGA of America
- Noble Energy
- ESPN
- NASA





In The Jetsons, the 1960s cartoon classic, George Jetson and his family lived in a futuristic society with housecleaning robots and programmable appliances. **(George also logged on to FaceTime chats with his boss, and he read his news from a screen.)**

*Popularity surging for smart-home technology
15 March 2013, The Philadelphia Inquirer*



QUALCOMM TRICORDER X PRIZE Healthcare in the palm of your hand

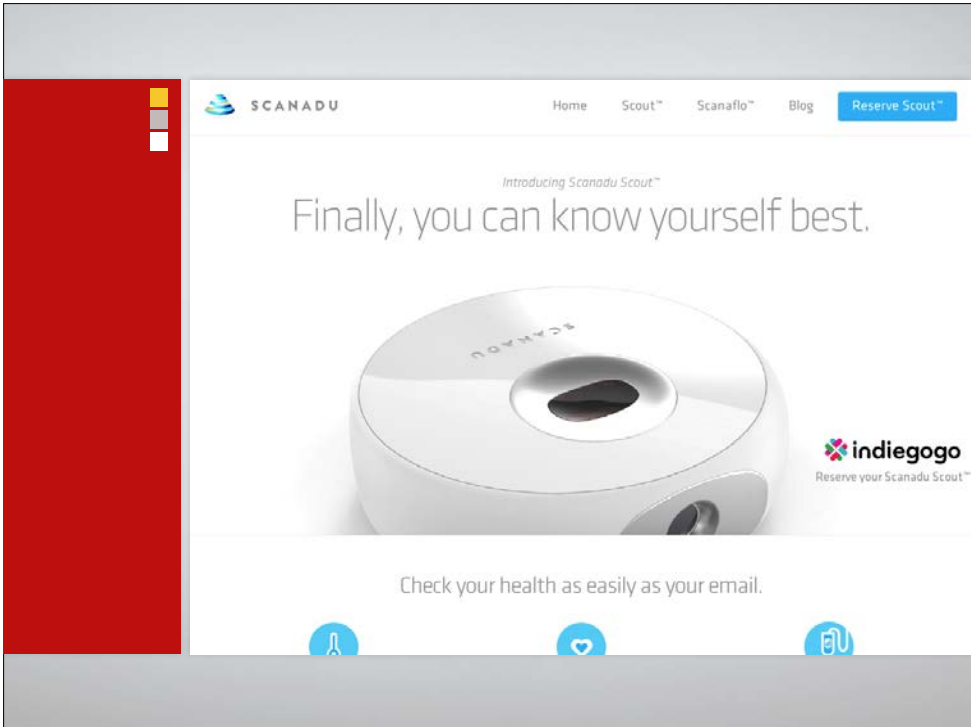
Competition Details Media Blog About

Science fiction reality in the palm of your hand

Just announced: A \$10 million competition to empower your own healthcare.

Introducing the Qualcomm Tricorder X PRIZE. A \$10 million competition to bring healthcare to the palm of your hand.

Imagine a portable, wireless device in the palm of your hand that monitors and diagnoses your health conditions. That's the technology envisioned by this competition, and it will allow unprecedented access to personal health metrics. The end result: Radical innovation in healthcare that will give individuals far greater choices in when, where, and how they receive care. [Learn more about the competition >>](#)




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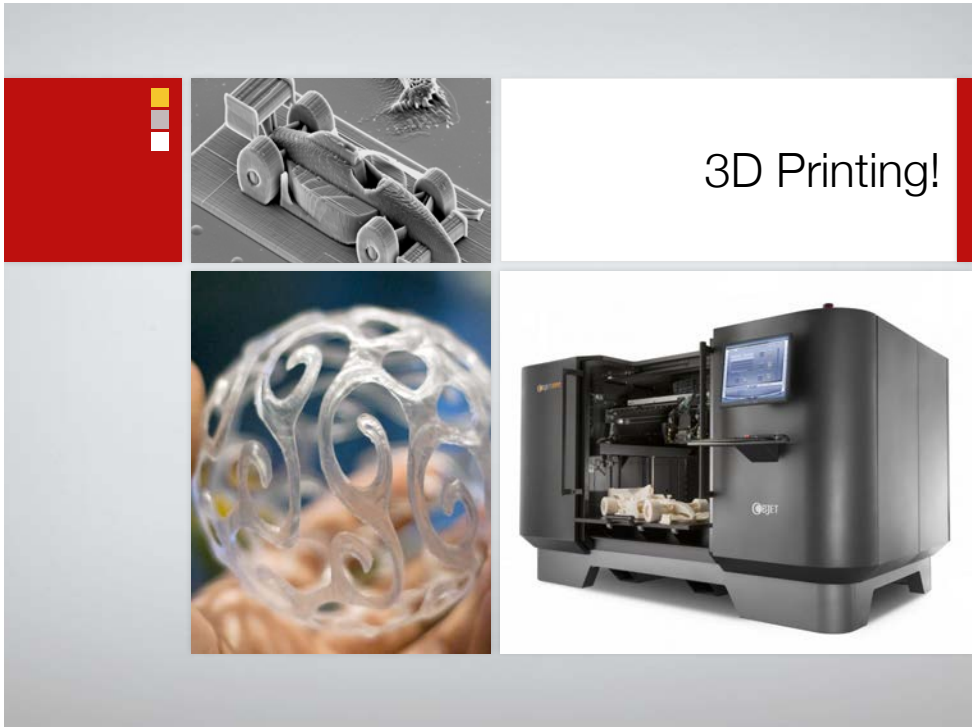
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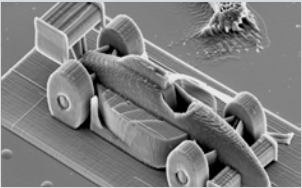




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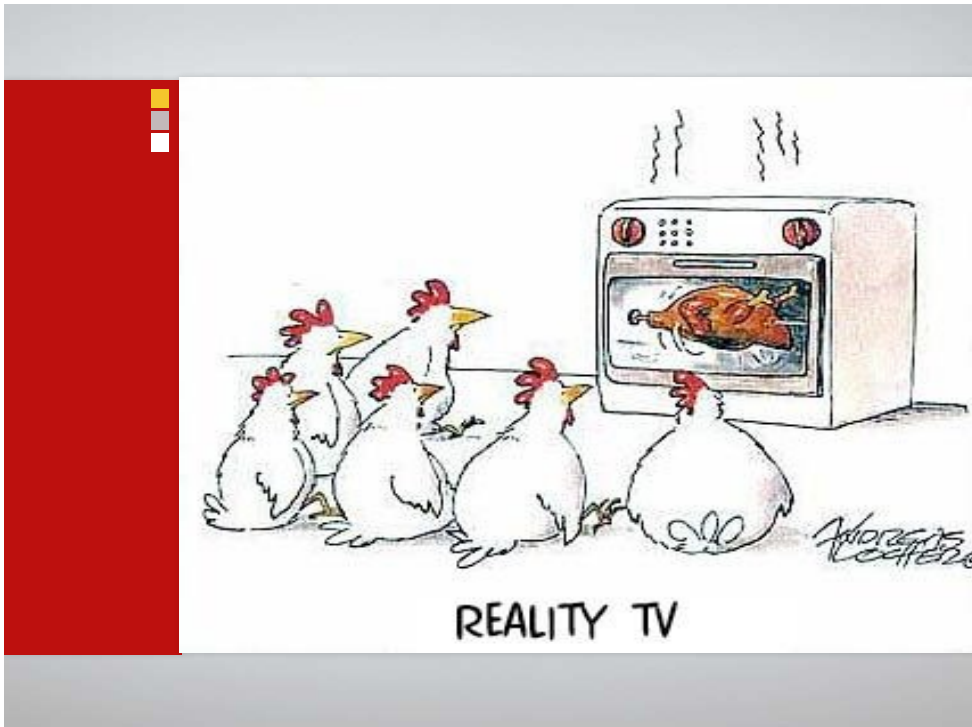
Check your health as easily as your email.



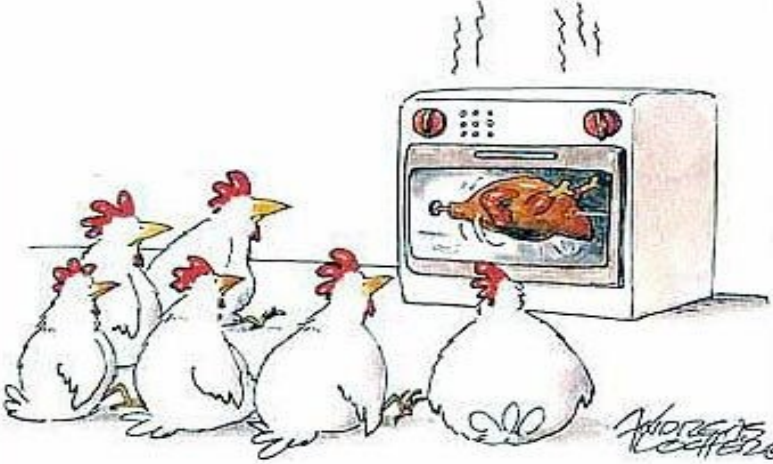
3D Printing!


“We always overestimate the change that will occur in the next two years and underestimate the change that will occur in the next ten. Don't let yourself be lulled into inaction.” **Bill Gates**

REALITY TV



Fast! Faster!

- rapid emergence of new hazards and risk (roof photovoltaics / solar)
- faster, more complex challenges (new chemicals, nano materials, more pipeline risk with shale oil growth)
- rapid advancement of science (arson / forensic skills and knowledge)
- fluctuating community size (100,000 people for tailgate parties)



Are we keeping current with the trends that are enveloping us in the fire service? How do we know?

*Evolving Your Training for Today's Fireground Hazards
1 September 2014, Firehouse*





1. World class innovators think big & **realign themselves to the longer term**



“We always overestimate the change that will occur in the next two years and underestimate the change that will occur in the next ten. Don’t let yourself be lulled into inaction.” **Bill Gates**



“That’s the dumbest thing I ever heard!”





By 2017?

- a SIRI button in every car
- augmented reality screens with heads up display
- glasses-free 3D dashboards
- interactive in-car billboards ("take me there!")
- payment technology embedded into the in-car dashboard experience!



Bubba Hover!

New niche markets - faster!



What could be REALLY BIG
just five years from now?



By 2017?

- aerial drones linked to in-truck multi-screen video system
- robotic building explorers linked to real time, 3D location databases
- instant spectrometry air-sampling analyzers with intelligent fire suppression technology suggestions





“That’s the dumbest thing I ever heard!”

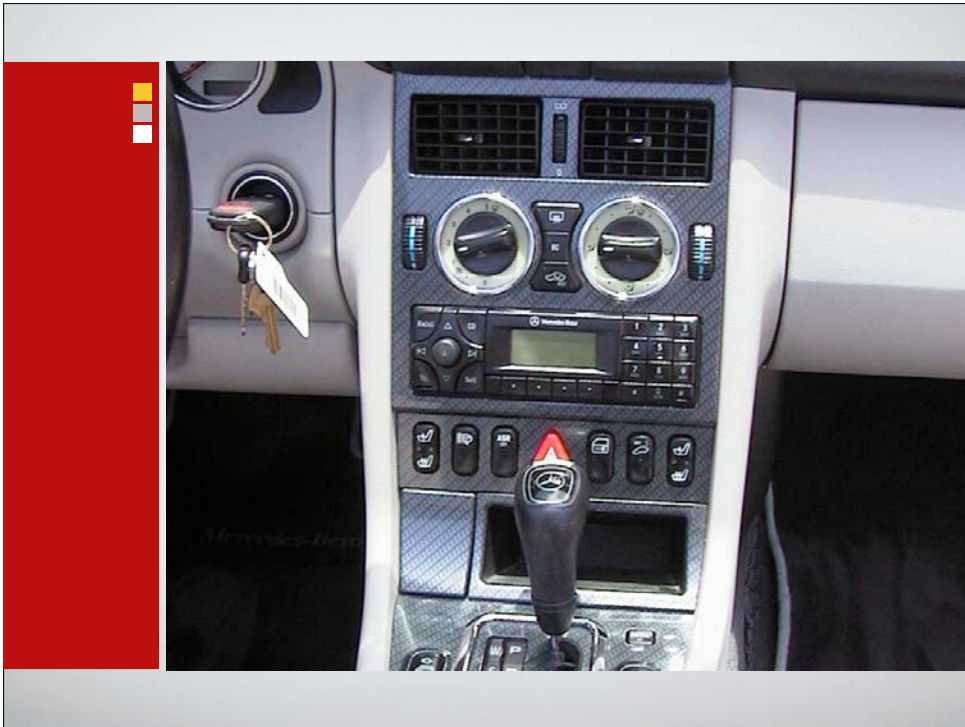


2. World class innovators put the speed of change in perspective

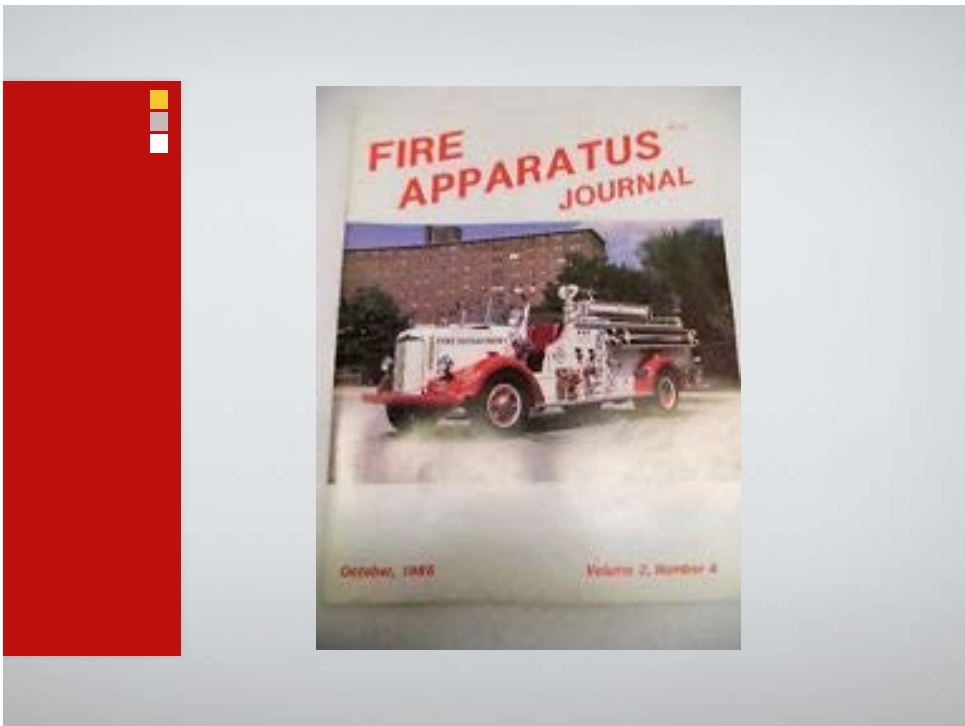




Thomas



The olden days?
2017?



FIRE
APPARATUS
JOURNAL

APPARATUS ARCHITECT

October, 1988 Volume 2, Number 4



“Every day, across the country and probably around the world there is some version of training being conducted in a firehouse. Far too often, that training consists of the “old timers” sharing war stories about tactics used on fires current personnel never saw with equipment that the department no longer has.”

*Change the Culture of Firefighter Training
January 2014, Firehouse*



An “Olden Days Inventory Checklist!”

- what do I have that is **already from** the olden days?
- what's **about to become** something from the olden days?
- when I buy **new tech**, do I avoid the decision because it could soon be from the olden days?
- how do I evolve my operations so that I'm not something from the olden days and am always 'surfing out on the edge?'

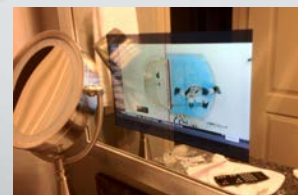
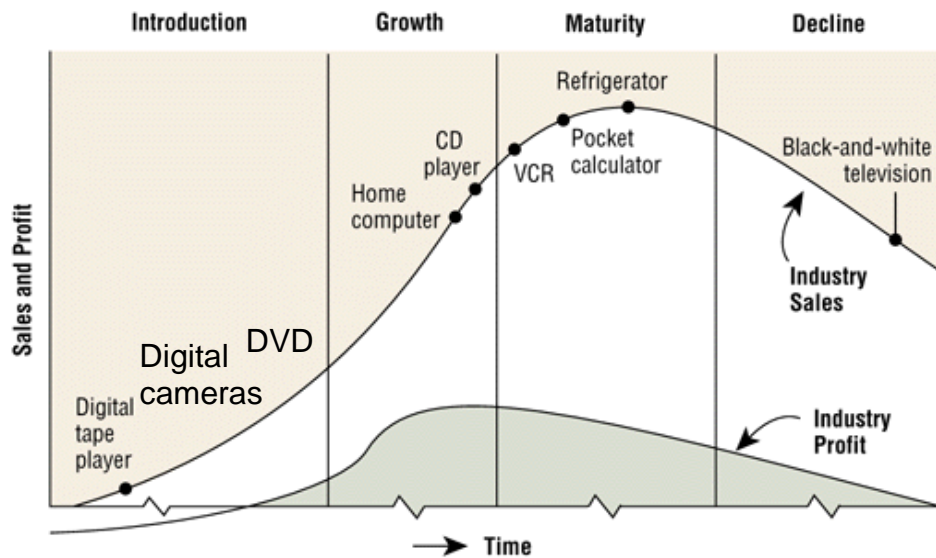




3. World class innovators
check their speed



Stages in the Product Life Cycle



OLED everywhere!

“Chameleon revenue”



“Honda's assembly lines can switch models in as little as 10 days by contrast, it could take months for most rivals to make the same change.”



- device IP
- location intelligence
- sensor awareness





“A technology company that makes cars”



Source of Automotive Innovation



2010
Detroit

2014
Silicon
Valley



5. World class innovators challenge themselves with process



THE BIG M[™]
MANUFACTURING
CONVERGENCE

JUNE 09-12 2014 COBO CENTER DETROIT

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SME INTERNATIONAL AWARDS GALA

MONDAY, JUNE 9, 2014
GRAND BALLROOM A
COBO CENTER | DETROIT

QUICK LINKS

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- Exhibit
- Sponsors
- Register

Agility....



Flexibility....

**Post-flat
strategies**





Time to
Market

H&M
BAA

Industrial design

- Rapid concept generation
- Rapid concept development
- Rapid prototyping



Digital
Natives

“The education level of our workforce has increased so much....The machinists in this industry do trigonometry in their heads.”

GENESIS SYSTEMS GROUP, the largest robotic arc welding workcell manufacturer in the U.S and North America, is hosting our 7th Robotic Automation Seminar. This *free* 2-day educational seminar enables our attendees to gather knowledge on multiple robotic automation processes.



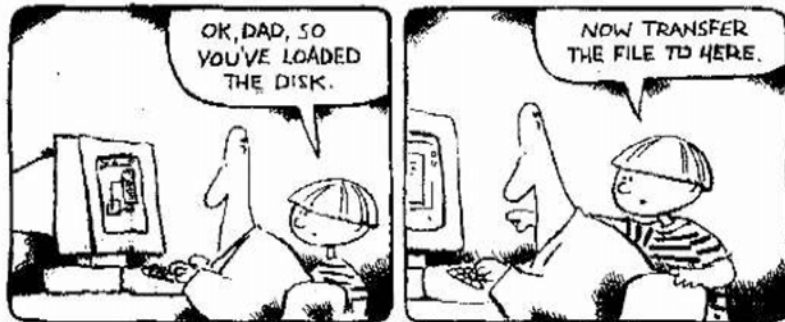
“Progress is great, but it’s gone on far too long”
Ogden Nash



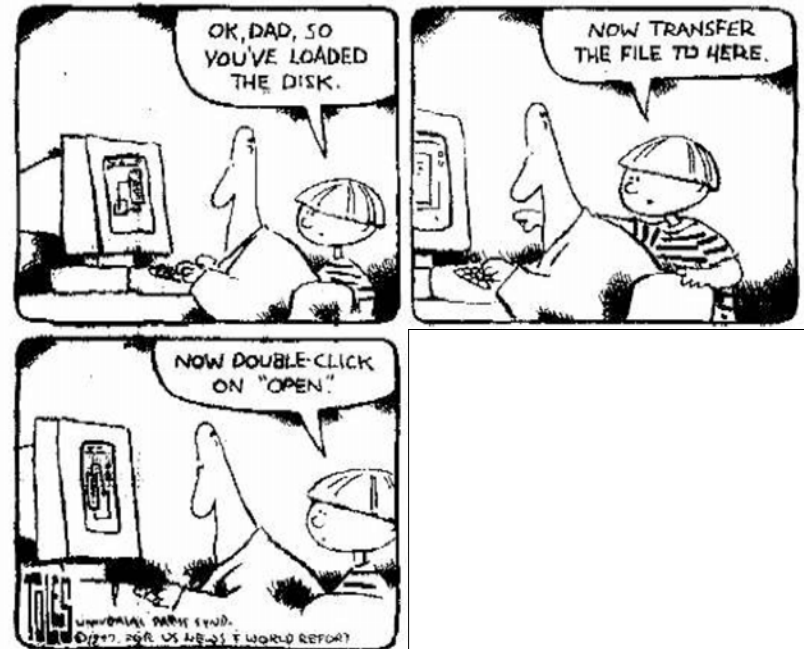
Computers at a glance



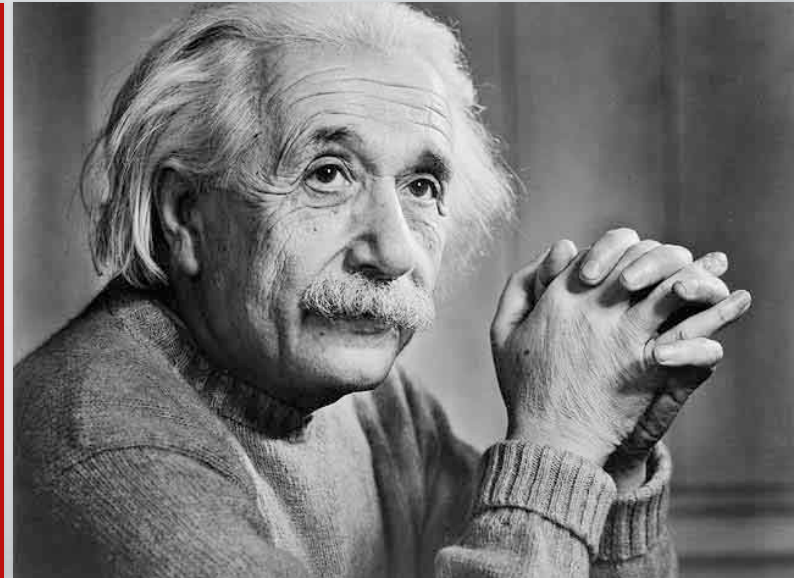
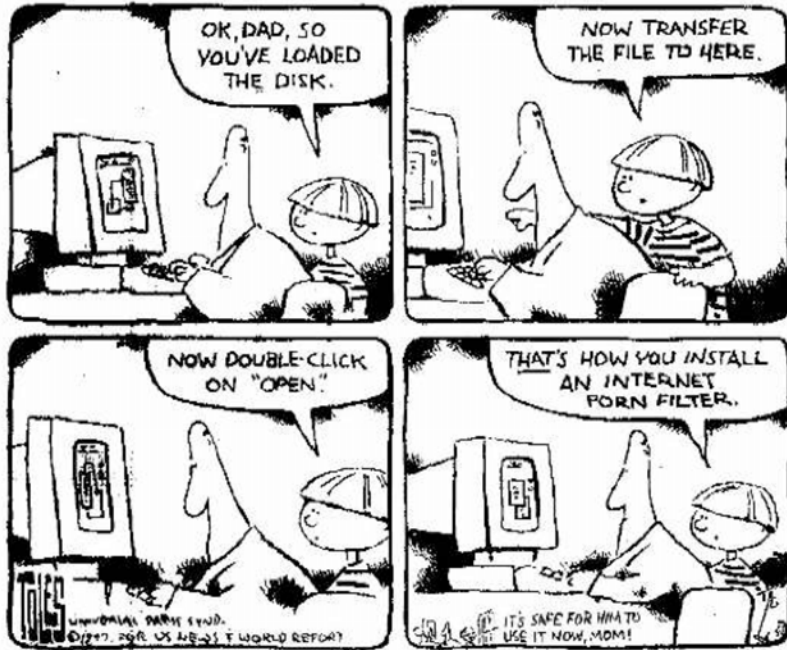
Computers at a glance



Computers at a glance



Computers at a glance



- half of the global population <25
- globally wired, entrepreneurial, collaborative, change oriented
- now driving rapid business model change, and industry transformation as they move into executive positions





7. Challenge organizational sclerosis!



“You can’t do that -
we’ve always done it **this way!**”



“**It won’t work!**”



“That’s the **dumbest thing** I ever heard”



“I don’t think I **can!**”



“It’s too **risky!**”



“Why can’t we just do what we’ve been doing **all along?**”



“I’m not convinced it’s **necessary!**”



“Some people see a trend, and see a threat. Innovators see the same trend, and see an opportunity”



- think **big**
- start small
- scale *fast*



- think **big**
- start small
- scale *fast*





- Observe
- Think
- Change
- Dare
- Banish
- Try
- Question
- Grow
- Do
- Enjoy!



Jim Carroll

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10 Great Words

Inspirational Innovation Insight





Rapid times require bold change; action is critical. Confront your inability to innovate and change, and you've got the right frame of mind to take you into the future.

10 Great Words

Jim Carroll, a futurist, trends & innovation expert, has provided his inspirational, innovation oriented insight to audiences in Zurich, New York, Vancouver, Cayman Islands, Palm Springs, London, Los Angeles, Budapest, Miami, Toronto, Costa Rica, San Francisco, Nassau and Stockholm, to name a few locations. He works with small, intimate management get-togethers, and delivers on-stage presentations that dazzle audiences of 3,000 or more.

Jim is completely focused on creativity and innovation – insight that is captured in his book ***Ready, Set, DONE! How to Innovate When Faster is the New Fast.***

The *10 Great Words* found here are featured in that book.

Jim originally wrote the “10 great words” posting on his blog. Since then, it has been one of the most heavily trafficked pages on his site. People have written him, letting him know that the power and concept within the words has provided them a unique impetus to change, explore, and innovate with the fast pace world that surrounds them. You might share this experience as well.

Feel free to share, distribute and exchange this document – and share the inspirational *10 Great Words* with your co-workers, leadership team, and staff!



Observe

Take the time on a regular basis to look for the key trends that will impact you, the industry you work within or the career you have established. Take the time to learn about the many automated knowledge discovery tools that exist on the Internet; develop a culture that taps into global collaborative knowledge.

Far too many organizations sit back after a dramatic change and asked “what happened?” Make sure that your organization is one that asks, “what’s about to happen? And what should we do about it?”

Think

Analyze your observations: spend more time learning from what you see happening around you. If you are like most organizations, you are responding to trends on a short term, piecemeal basis: you are reactive, rather than proactive. Step back, take a deep breath, and analyze what trends are telling you. From that, do what really needs to be done.

Change

In a time of rapid change, you can’t expect to get by with what has worked in the past – you must be willing to do things differently. Abandon routine; adopt an open mind about the world around you. The world is changing at a furious pace whether you like it or not. Take a look at how you do everything – and decide to do things differently.





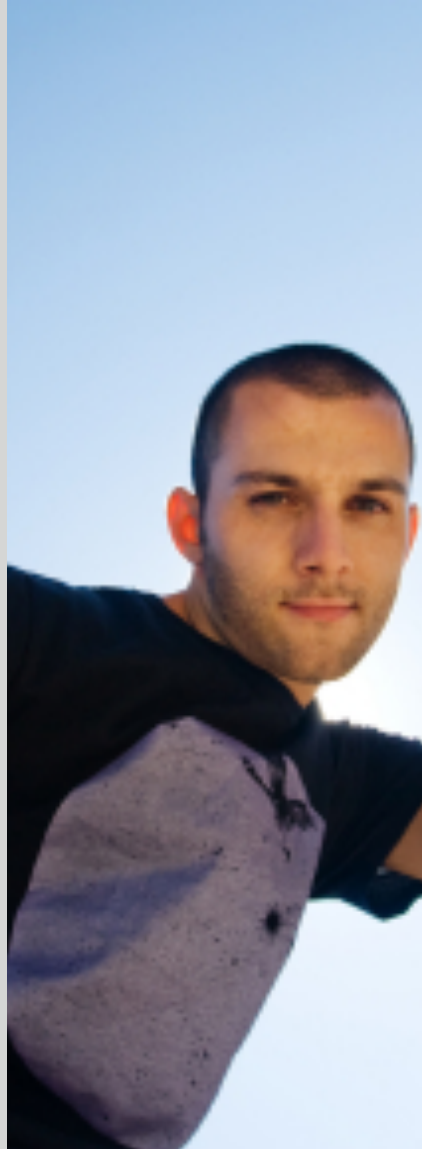
Dare

Have you lost your ability to take risks? Maybe so – yet risk-taking is critical to innovation and change. Work with a few of the new ideas that you generate, and try them out. That’s the only way that you will be comfortable with what comes next.

Try

How many of your people have lost their ability to adapt to changing circumstances because they’ve lost their confidence? Developing new skills and career capabilities is critical, given the rapid change occurring around us. Yet too many people have managed to convince themselves that they can’t adapt; they can’t change. Don’t let that happen – it’s one of the worst attitudes for going forward into the future.





Empower

In a world of rapid change, you can't expect that rigidly defined rules will be the appropriate response to changing circumstances. A ticked off customer needs a solution right now from a front line customer service rep – not some type of follow-up from head office weeks later. A middle manager in a remote location needs the ability to make a decision and must commit to it today – they can't afford to wait for the wheels of head office bureaucracy to churn. Destroy the hierarchy, and encourage a culture in which people are given the mandate and the power to do what's right, at the right time, for the right reason.

Question

Go forward with a different viewpoint by challenging assumptions and eliminating habit. If your approach to the future is based upon your past success, ask yourself whether that will really guarantee you similar results in the future. If you do certain things because "you've always done it that way," then now is an excellent time to start doing them differently.





Banish

Get rid of the words and phrases that steer you into inaction and indecision: “We can’t do that.” “It won’t work.” “That’s the dumbest thing I ever heard.” These are the innovation killer phrases – watch for them, and don’t permit them to be used.

Grow

Stop focusing strictly on cutting costs – focus on service opportunity instead. Don’t stand in fear of what you don’t know – teach yourself something new. Don’t question your ability to accomplish something great – grab the bull by the horns and see what you can do! The point is, in a world of rapid change, you must continually enhance your capabilities and opportunities through innovative thinking. Change your attitude now, and the rest will come easily.

Do

Renew your sense of purpose, and restore your enthusiasm for the future by taking action. Too many organizations, and the people who work within them, are on autopilot. They go into work each day, and do the same things they did the day before, with the belief that everything today is the same as it was yesterday. It isn’t.





Word #11 Enjoy!

Oh, and there's an 11th great word!

Enjoy!

Through the years, I've come to learn that the groups that pursue innovation are those organizations and individuals who approach the future with a lot of passion.

These are the folks who tend to wake up every day and think, "wow, I can't wait to get to work!"

These are the people who have succeeded with being innovative, in mind, spirit, and actions.





About **Jim Carroll**

When the Walt Disney Corporation went looking for an expert on the topic of innovation and creativity, they went with Jim Carroll!

Jim is the author of *Ready, Set, Done: How to Innovate When Faster is the New Fast*, and *What I Learned From Frogs in Texas: Saving Your Skin with Forward Thinking Innovation*. He is a strategic thinker and "thought leader" with deep insight into trends, the future, creativity, and innovation. For the last fifteen years, he has provided high energy keynotes for audiences of up to 3,000 people, and intimate, detailed customized strategic planning insight for CEO / board / senior management meetings.

Jim was recently named by *Business Week* as one of four leading sources for insight on innovation and creativity, and was a featured expert on the prime time *CNBC* series, "*The Business of Innovation*." His clients include Nestle, Motorola, Caterpillar, Verizon, the British Broadcasting Corporation, the Sporting Goods Manufacturers Association, Blue Cross Blue Shield, the World Congress on Quality, and the Swiss Innovation Forum.



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The *10 Great Words* are featured in Jim's book, *Ready, Set, Done! How to Innovate When Faster is the New Fast*.

Enjoy more inspirational insight with similar motivational concepts with your own copy of the book. It's available at Jim's web site, and at Amazon.com.

