IOWA, Did You Know?
In the beginning, there was the land
We came, we settled, we built farms, families and factories.
We built schools that would last a century (good thing!)
We built a STATE
and a NATION
but our **WORLD** didn’t stay still
We fought in WARS
We moved to CITIES
and our towns SHRANK
We invented digital computers right here in IOWA!
This changed EVERYTHING
Jobs moved overseas

Our lives became more WIRED
and before most of us realized, it was a completely different world...
Did You Know?
Today we live in exponential times

7 BILLION people on the planet
and
5 BILLION
mobile phones
Today more people have access to a mobile phone
25% of American households have ONLY a cell phone.
2 BILLION people are on the Internet

750 MILLION are on Facebook
that's just over 1 in 9 people worldwide
There are 200 MILLION people on Twitter
sending 100 MILLION tweets per day
If Facebook and Twitter were countries...

They’d rank 3rd and 6th in population
35 HOURS of video are uploaded to YouTube every minute
That equals 176,000 full-length Hollywood releases EVERY WEEK.
29% of all people under 25 get all or most of their TV online.
Kindle books now outsell hardbacks and paperbacks **COMBINED** on Amazon.
Did You Know?
Wikipedia contains **3.6 MILLION** articles in **ENGLISH** alone
Flickr users have uploaded 5 BILLION pictures
and Facebook?

50 BILLION
92 percent of American children have an online presence by the time they are 2 YEARS OLD.
In 2008

Corey Menscher’s baby tweeted from the womb!
80 MILLION Americans are expected to own an iPad by 2015.
Mobile app downloads

2009
300 MILLION

2010
5 BILLION
250 MILLION
and ANGRY BIRDS downloads?
The amount of digital information worldwide will increase 44x between now and 2020.
Information overload?
247 BILLION emails are sent every day
Unfortunately 80% are spam or viruses
6.1 trillion text messages were sent last year.
87% of all teenagers text

They send an average of 3,339 per month
Did You Know?
Iowa is struggling to keep up
POP QUIZ

We’re losing our jobs to:

a) machinery
b) computers
c) other states
d) other countries
e) all of the above
Total number of high school graduates?

WE RANK 8th!
But in 7 years, 62% of Iowa jobs will require POSTSECONDARY EDUCATION
Yet only 25% of Iowans have a Bachelor’s degree; nationally that’s 37TH
Only 8% of Iowans have a graduate degree and that ranks 43rd.
HOW DO WE RANK IN THESE CRITICAL GROWTH AREAS?

35th Percentage of high tech jobs
35th New business incubation
37th Percentage of scientists and engineers
41st High speed Internet access per capita
49th Entrepreneurial activity
Did You Know?
Our **SCHOOLS** are struggling to keep up too.
We have 200,000 fewer students than in 1972.
80% of high school students’ daily classroom study is LOW-LEVEL MENTAL WORK
The kind of stuff you can find online in 5 seconds
The average fifth grader receives 5X the instruction in basic skills versus problem-solving or reasoning.
By 2019, about half of high school courses are projected to be **ONLINE**
Right now, Iowa ranks 40th in K-12 online enrollment.
We spend less on school technology than we did...

1998: $48 million
2008: $42 million
We’ve got some **BIG CHOICES** to make
Do we bemoan our past or roll up our sleeves and get to work?
Do we get intimidated by these new demands or do we REBUILD?
Do we get intimidated by these new demands or do we RETRAIN &
Do we get intimidated by these new demands or do we **REDIS**IGN
44 Iowa school districts are giving their kids laptops and **RETHINKING** their classrooms.

Next year it will be closer to...
Right now, Iowa ranks 40th in K-12 enrollment online.
46 Iowa high schools are now using the same virtual reality software as aerospace engineers.
And schools all across the state are focusing on critical thinking and problem-solving rather than **LOW-LEVEL** factual recall.
Is YOUR local school one of them?
Today’s classroom looks a lot like that of 1890

But it’s 2011
How and what we teach HAS TO CHANGE
We led the way in agriculture and manufacturing

**NOW IT’S TIME TO LEAD AGAIN**
IOWA
WE CAN DO THIS!
It’s the 21st CENTURY. We must prepare our students for their future, not our past.
SHIFT Happens
Will our schools SHIFT?
“It is not the strongest nor the most intelligent that survives. It is the one that is the most adaptable to change.”

~ Charles Darwin
iowaFUTURE

Join the conversation @ iowafuture.org
CREDITS

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DOWNLOAD SOURCE FILES: shifthappens.wikispaces.com

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Today we live in exponential times:
http://www.youtube.com/watch?v=cL9Wu2kWwSY

7 billion people on the planet; 5 billion cell phones, mobile vs clean toilet:

25% of American households have ONLY a cell phone:
http://www.time.com/time/magazine/article/0,9171,2062452,00.html

7 billion people on the planet; 2 billion Internet users:

750 million people on Facebook:

That's 1 in 2 Americans and 1 in 9 people worldwide:
http://www.theblaze.com/stories/its-official-majority-of-americans-are-on-facebook/,
http://www.time.com/time/specials/packages/article/0,28804,2036683_2037183_2037185,00.html

200 million people on Twitter sending 100 million tweets per day:
SOURCES

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http://en.wikipedia.org/wiki/List_of_countries_by_population

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http://phx.corporate-ir.net/phoenix.zhtml?c=176060&p=irol-newsArticle&ID=1565581

3.6 million Wikipedia articles in English:

5 billion pictures on Flickr and 50 billion on Facebook:

92 percent of American children have an online presence:

In 2008, Corey Menscher’s baby tweeted from the womb:
http://mashable.com/2008/12/14/baby-twitter
SOURCES

1 in 4 Americans will own an iPad by 2015:
http://blogs.forrester.com/sarah_rotman_epps/11-01-04-us_tablet_sales_will_more_than_double_this_year

Downloaded mobile phone apps:
http://www.youtube.com/watch?v=6mCkbrYKQyI

250 million downloads of Angry Birds:
http://techcrunch.com/2011/06/14/angry-birds-downloads-250-million-magi/

The amount of digital information worldwide:

Information overload: http://web2expo.blip.tv/file/1277460/

2.8 million e-mails each second / 247 billion per day:

6.1 trillion text messages were sent last year:

87% of teens text:

Average teenager sends 3,339 texts per month:
http://mashable.com/2010/10/14/nielsen-texting-stats

Number of high school graduates? We rank 8th:
But in 7 years 62% of Iowa jobs will require postsecondary education:
http://cew.georgetown.edu/JOBS2018/

Only 1 in 4 Iowans has a Bachelor's degree = 37th:
http://www.census.gov/compendia/statatab/2010/tables/10s0228.pdf

Only 8% of Iowans have a graduate degree = 43rd:
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Percentage of high-tech jobs = 35th:

New business incubation = 35th:

Percentage of scientists and engineers = 37th:

High-speed Internet access per capita = 41st:

Entrepreneurial activity = 49th:

We have 200,000 fewer students than in the 1970s:
Sources

80% of high school students' daily classroom work is low-level cognitive work:
http://bigthink.com/ideas/30621

The average fifth grader:
http://bigthink.com/ideas/30621

By 2019, about half of high school courses may be online:
Disrupting Class, by Christensen, Horn, & Johnson

Iowa only ranks 40th in K-12 online enrollment:

We spend fewer school dollars per student on technology:

44 Iowa school districts are giving their kids laptops:

Virtual reality software usage:
http://www.vrep.org/who-is-participating.htm