

PROJECT MANAGEMENT INSTITUTE

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What Project Managers need to know about IT

changes
challenges!

DID YOU KNOW?

Did you know?



Sometimes size
does matter.

If you're **one in a
million** in China...

there are 1,300 people
just like you.

In India, there are 1,100
people just like you.

In the U.S., there are
310 people just like you.

The 25% of the
population in China
with the highest IQs....

is greater than the
total population of
North America.

Translation for teachers:
they have more honors
kids than we have kids.

Did you know?

China will soon become
the number one **English-**
speaking country in the
world.

If you took *every single job* in the U.S. today and shipped it to China...

China would still have
a labor surplus.

During the course of
this presentation...

- 60 babies will be born in the U.S.
- 244 babies will be born in China.
- 351 babies will be born in India.

Name this
country...

- **Richest in the world**
- **Largest military**
- **Center of world business and finance**
- **Strongest educational system**
- **World center of innovation and invention**
- **Currency the world standard of value**
- **Highest standard of living**

England

in 1900.

Did you know?

The U.S. Department of
Labor estimates that
today's learner will have
10 to 14 jobs...

by age 38.

According to the U.S.
Department of Labor...

1 out of 4 workers today
is working for a company
for whom they have been
employed **less than 1 year.**

More than 1 out of 2 are
working for a company for
whom they have worked
less than 5 years.

According to former
Secretary of Education
Richard Riley...

the top 10 jobs that will
be in demand in 2010
didn't exist in 2004.

We are currently
preparing students for
jobs that don't yet exist...

using technologies that
haven't yet been invented...

in order to solve problems
we don't even know are
problems yet.

Did you know?

The U.S. is 20th in the world
in broadband internet
penetration (Luxembourg
just passed us).

Nintendo invested more than \$140 million in research and development in 2002 alone.

The U.S. federal government spent **less than half as much** on research and innovation in education.

Did you know?

1 out of every 8 couples
married in the U.S. last
year met **online.**

There are over **210 million** registered MySpace accounts (as of January 2008).

If MySpace were a country,
it would be the 5th largest in
the world (between
Indonesia and Brazil).

The average MySpace
page is visited **30** times a
day.

Did you know?

We are living in
exponential times.

There are over 2.7 billion searches performed on Google each month.

To whom were these
questions addressed
B.G. (before Google)?

The number of **text messages** sent and received every day exceeds the population of the planet.

Did you know?

There are about
540,000 words in the
English language...

about 5 times as many as
during Shakespeare's time.

More than 3,000 new
books are published...

daily.

It is estimated that a
week's worth of *New York
Times*...

contains more information
than a person was likely
to come across in a
lifetime in the 18th century.

It is estimated that
1.5 exabytes (1.5×10^{18})
of unique new information
will be generated
worldwide this year.

That's estimated to be
more than in the previous
5,000 years.

The amount of new
technical information is
doubling every 2 years.

For students starting a
four-year technical or
college degree, this means
that...

half of what they learn in their first year of study will be **outdated** by their third year of study.

By 2010, the new amount of technical information is predicted to double every 72 hours.

Did you know?

Third-generation **fiber optics** has recently been tested by both NEC and Alcatel...

that pushes 10 trillion
bits per second down
one strand of fiber.

That's 1,900 CDs, or 150 million simultaneous phone calls, every second.

It's currently **tripling** about every 6 months and is expected to do so for at least the next 20 years.

The fiber is already there.
They're just improving the
switches on the ends, which
means the marginal cost of
these improvements is
effectively \$0.

Predictions are that e-paper
will soon be cheaper than
real paper.

Did you know?

47 million laptops were shipped worldwide last year.

The \$100 laptop project is expecting to ship between 50 to 100 million laptops a year to children in underdeveloped countries.

Predictions are that by 2013
a **supercomputer** will be
built that exceeds the
computation capability of
the human brain.

By 2023, when 1st-graders
will be just 23 years old and
beginning their (first)
careers...

it will only take a
\$1,000 computer to
exceed the capabilities
of the human brain.

And while technical predictions farther out than about 15 years are hard to make...

predictions are that by
2049 a \$1,000 computer
will exceed the
computational capabilities
of the **human race**.

Now you know...

What does it
all mean?

Challenges!

The image features a solid blue background. In the lower right quadrant, there are several overlapping, wavy, light blue lines that create a sense of motion or depth, resembling a stylized wave or a decorative graphic element.

IT CONTINUUM

	Steward	Processor	Collaborator	Innovator
Focus	Reliable Operations	Plus shared services	Plus value creation	Plus service and product innovation
Keywords	Cost, speed, quality	Enterprise, across silos	Partner with business	Innovation
Expectation	Benchmark, no disasters, no surprises	Results exp. reduction	Executive team member	Innovation is technology based
Challenges	Staffing, standards, delivery	Sourcing, common architectures	Staffing--re-skilling, coaching	Ownership

HOW SHOULD WE REACT?

- Form an Innovation Group
 - Enterprise-wide mandate
 - Corporate eyes and ears of emerging technologies that could impact business
 - Senior IT position
- Establish Corporate Initiatives Group
 - Center of Excellence for Process Management (Resign)
 - Business SMEs imported/lead enterprise-level initiatives
 - IT business analysts exported to business areas

HOW SHOULD WE REACT?

- Establish Sourcing Strategy
 - Need “hands” to meet new expectations
 - Need talent to transform business/IT
 - Strategy A
 - Outside talent put on transformer efforts
 - Permanent staff keeps the lights on
 - Strategy B
 - Outside talent put on legacy to keep lights on
 - Permanent staff become transformers

HOW SHOULD WE REACT?

- Consider Organization Changes
 - Chief IT Operation Officer
 - Development, support, infrastructure operations
 - Chief IT Administrative Officer
 - Planning, compliance, strategy, finance, legal
 - Chief IT Innovation Officer
 - R&D, emerging technologies, proto-types

