



The Changing Face of Control

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Overview

- Preface
- Some history
- What happened last time can tell us about this time
- The changing face of control
- Conclusions





Don't worry about...

Yeah, they're bad enough to cause a breakdown...

... but something else will ***guarantee*** a breakdown



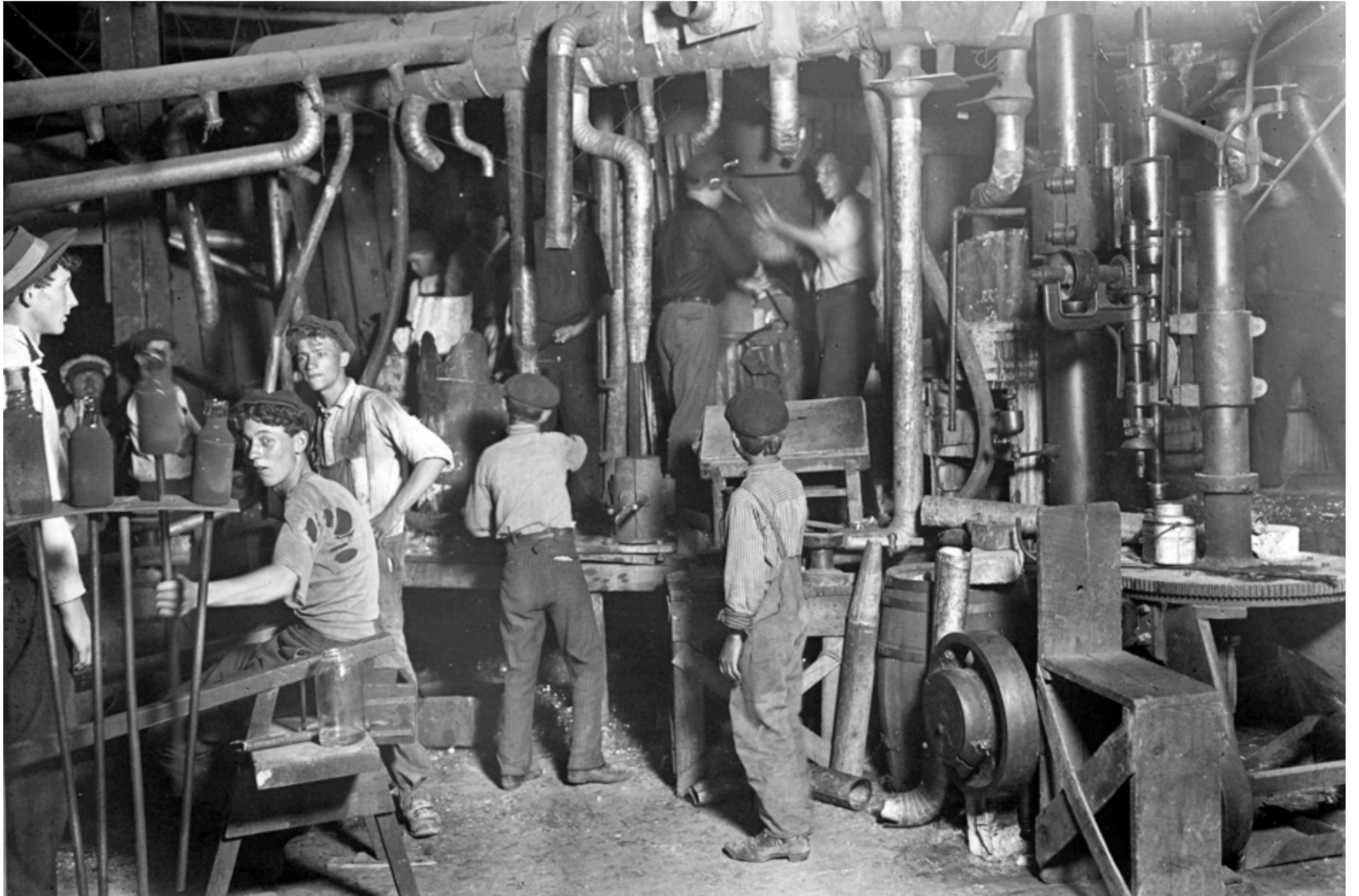
The First Industrial Revolution

... Automated **Braun**



The Second Industrial Revolution

... is Automating the **Brain**



The first industrial revolution changed the **economic system**





But Capitalism is predicated on **participation**

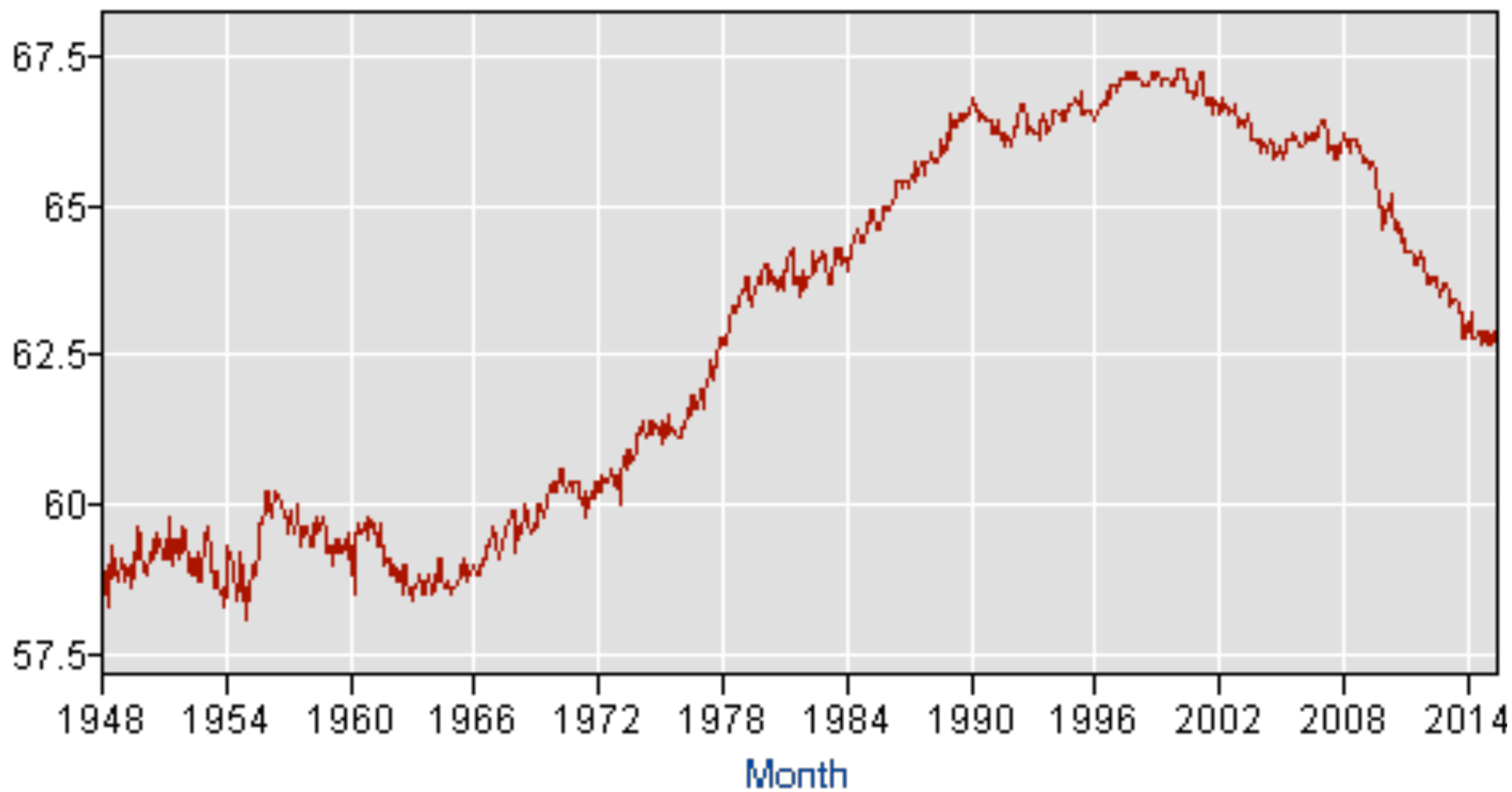


Automation is making participation ***Unnecessary***

Since the Second Industrial
Revolution started in the 1980's...

... we're pretty much on track...

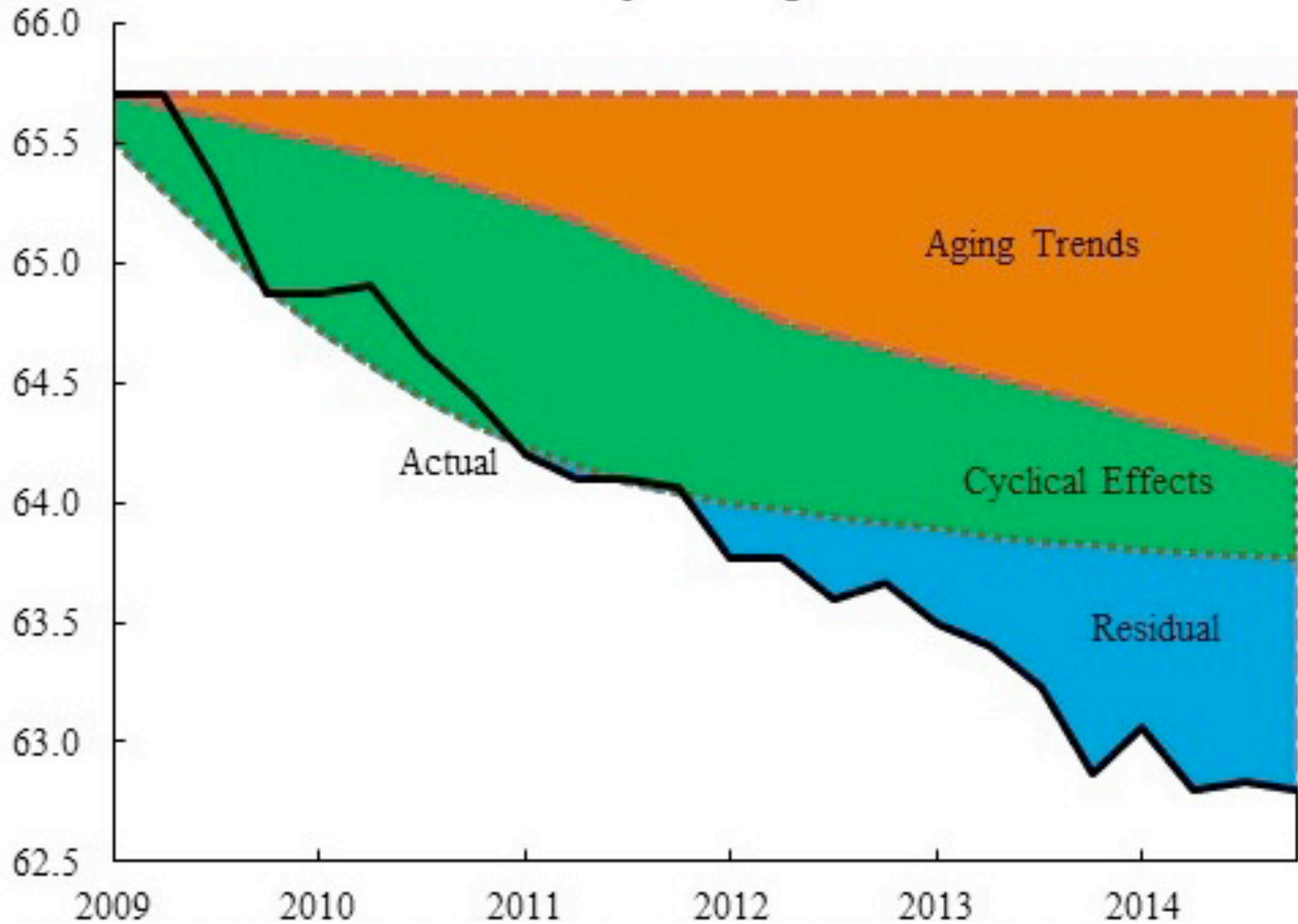
... for massive problems in the 2020's



Source: U.S. Bureau of Labor Statistics: (Seas) Labor Force Participation Rate
1948-2015

<http://data.bls.gov/pdq/SurveyOutputServlet>

LABOR FORCE PARTICIPATION DECOMPOSITION, 2009–2014
Percent of Civilian Noninstitutional Population Age 16+



Not all of the loss is due to aging or normal economic effects.

Source: <https://www.whitehouse.gov/blog/2015/02/19/2015-economic-report-president>



Experts predict robots will take over 30% of our jobs by 2025 – and white-collar jobs aren't immune



KATHLEEN ELKINS



May 1, 2015, 11:15 AM

75,088

80



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There's a [BakeBot robot](#) whipping up fresh cookies at MIT; hospitals are [now employing medical robots](#) to assist their doctors; and a robot named Baxter can [beat any human at the popular logic game Connect Four](#), among many other tasks.

"Historically what we thought was that robots would do things that were the three D's: dangerous,



Business Standard

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50% of occupations today will no longer exist in 2025: Report

Workspaces with row of desks will become completely redundant, not because they are not fit for purpose, but simply because that purpose no longer exists, the report predicts

Press Trust of India | Mumbai
November 7, 2014 Last Updated at 21:40 IST



A paradigm shift is expected to be witnessed in the way [workplaces](#) operate over the next 15 years, making nearly 50 per cent of [occupations](#) existing today redundant by 2025, a report has said.

Beyond Business

GO

FROM THE SECTION

Fiscal deficit target tough but achievable:
Bimal Jalan

Jalan heads the Expenditure
Management Commission, tasked by the
government to review the major areas of
expenditure

NITI plans to improve governance in
states

Gadkari: Tax cuts for those discarding old
cars, buying new ones

Did this happen the last time?

Yes

It was much worse!

During the 50+ years of the first industrial revolution...

jobs were ***eventually*** created, but not without unrest.

Some people got unbelievably rich...

... and some starved.

Most just stayed poor.

So it is safe to say that economic system
(in its present form)
will not survive the *Second* Industrial Revolution

What did companies do last time?

(among other things)
Companies developed Controls

When unrest increased, they tightened Controls

This time will be no different



Just More Intense!

Expect Tighter Controls

- Over Devices
- Over Software
- Over Networks
- **Increased Surveillance of Individuals**





Its Happening Now

Tighter controls make the ones in charge feel better

They don't know what else to do

Just remember...

They won't let ***their*** system go down
without a fight!

Controls are (and will be) part of that fight

Thus, Controls will get more stringent...

... and take on a ***political*** dimension

Questions?

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