



trinityconsultants.com

CIBO - Looking to the Future

October 23, 2015

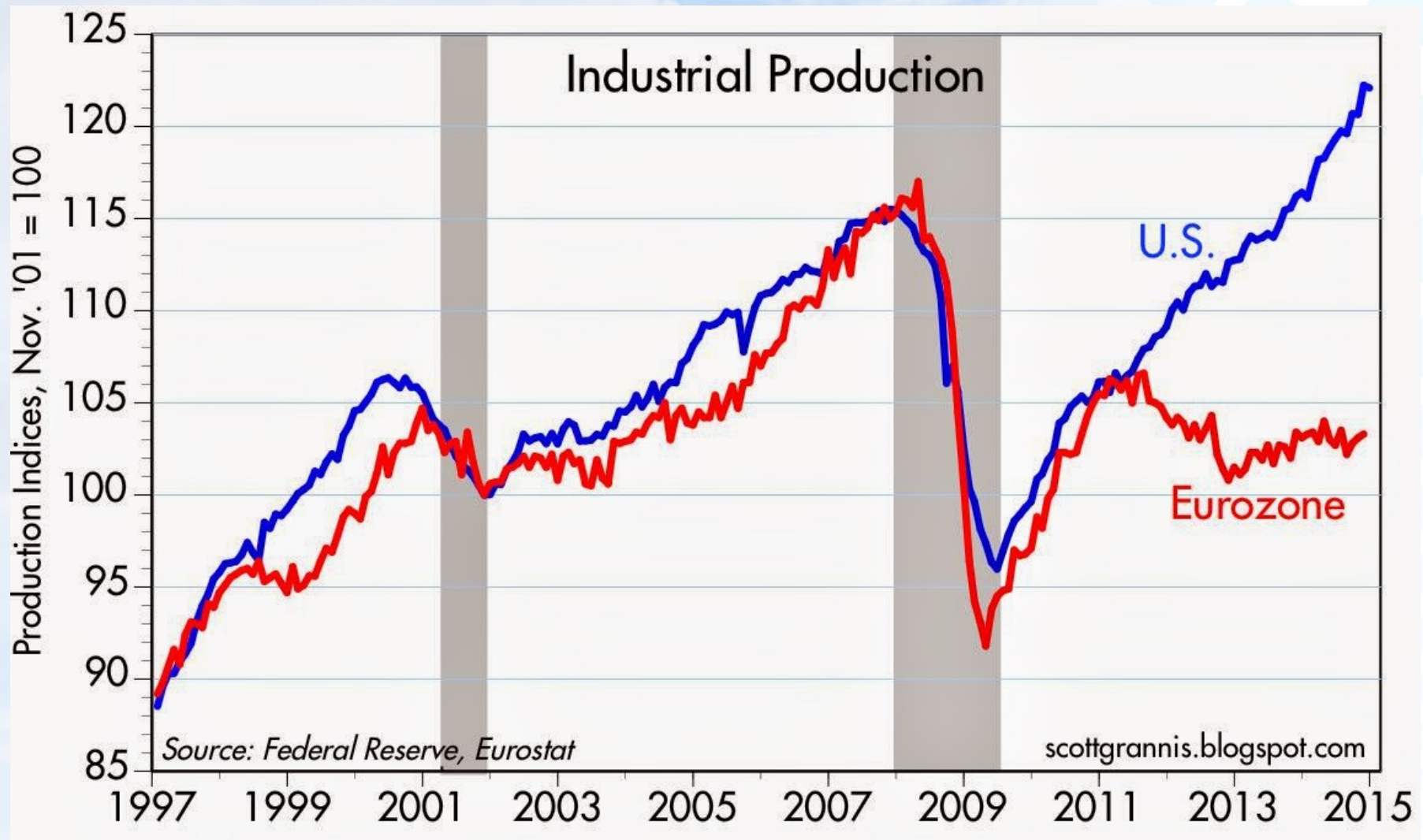
Jay Hofmann



Purpose/Agenda

- > Long-run strategic initiatives and plans
- > Focus Group Topics
- > 2013 Oveo Report
- > CIBO Evolution
- > Pressing membership matters/updates

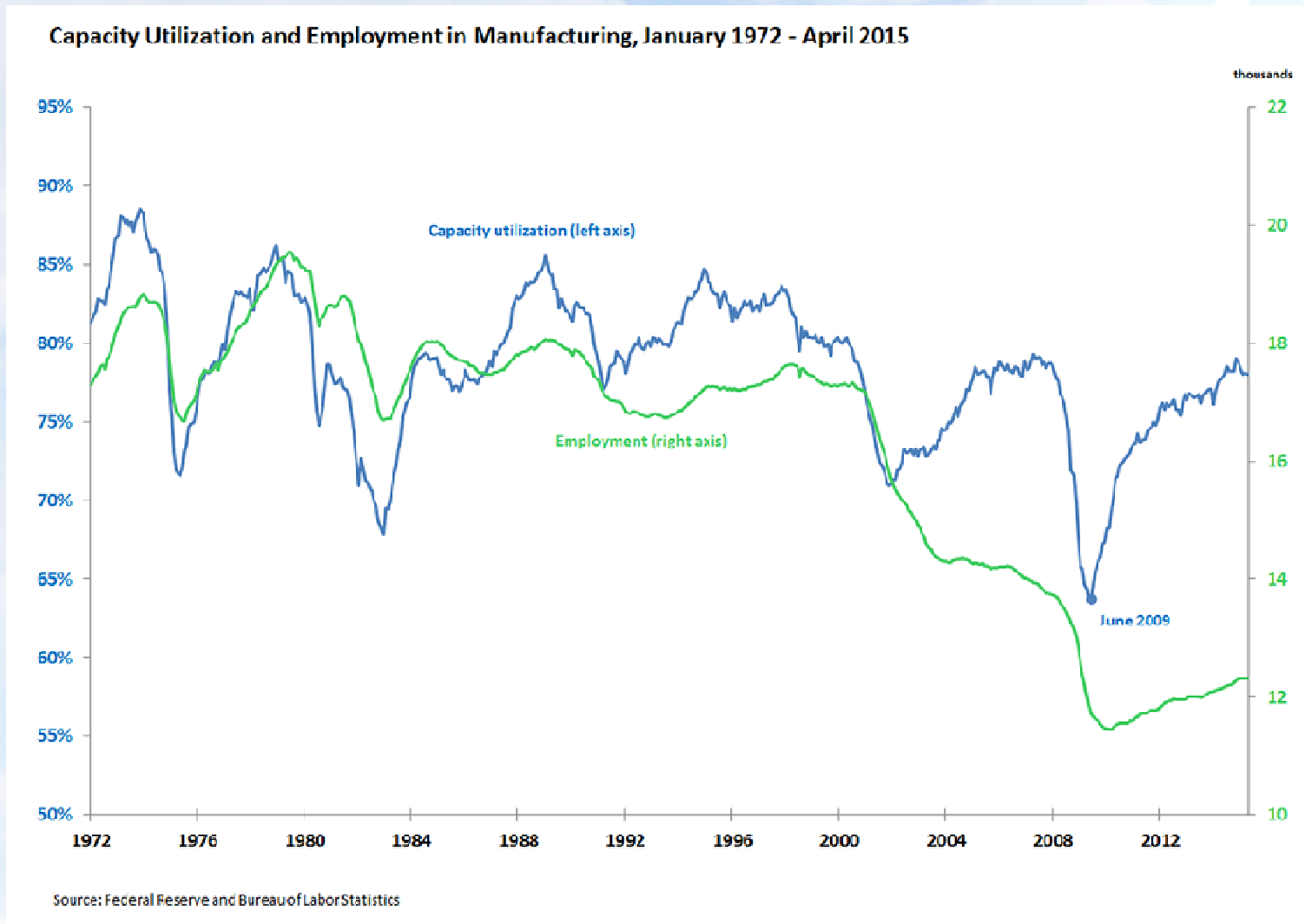
Industrial Production



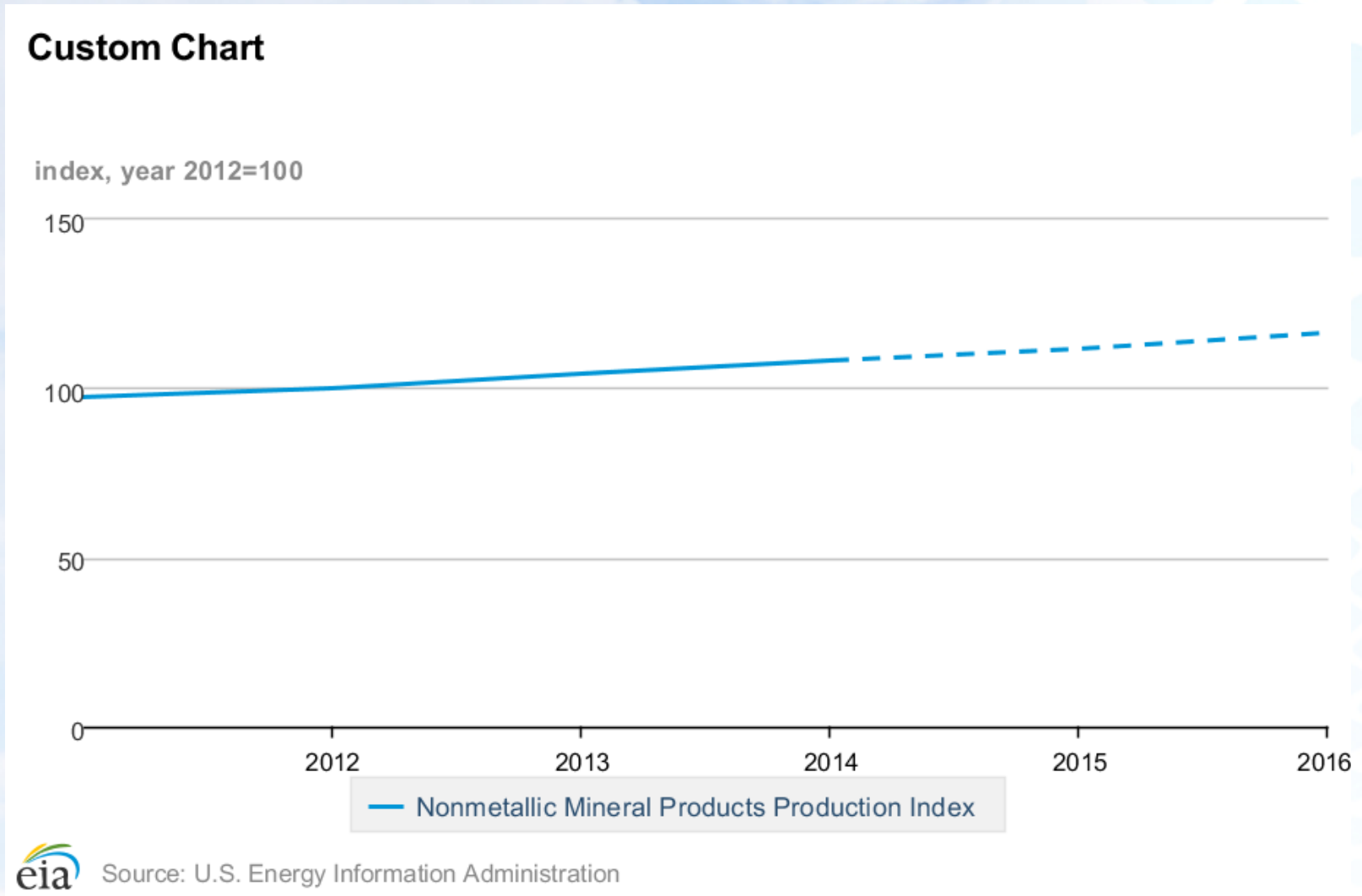
U.S. Manufacturing



Capacity Utilization and Employment



Nonmetallic Mineral Products



Potential Focus Group Topics

- Repowering options
- Cogeneration
 - Gas turbine CHP
 - Gas engine CHP
 - Biofuel CHP/wood gasification
 - CPP driven investments?
- Energy Efficiency/Energy Bill
 - Demand side
 - Supply side
 - DOE guidelines and regulations?
 - CPP overlap
- Environmental Management Systems
 - ISO 14000:2015
 - ISO 14064:2006 - GHGs
 - Others
- New Advanced Technologies
 - CCS, MicroCHP,
- Water Impacts on Industrial Energy
- Testing analysis support

Potential Focus Group Topics

- > Ozone/PM2.5 - Non-attainment
 - ❖ RACT, BACT, LAER, Offsets, etc.
 - ❖ Permitting/compliance case studies
 - ❖ Inter-pollutant trading
- > HAPs
 - ❖ BMACT ongoing compliance strategies - case studies
 - ❖ Evolution of other Section 112 standards?
- > September 2016 - Focus group on the election
 - ❖ Invited Pollster
 - ❖ Gov. Affairs
- > Clean Power Plan
 - ❖ What's going on at the state level?
 - ❖ Investment opportunities?
 - ❖ Does CIBO play a pro-active role?
- > Clean Air Act (reform)
 - ❖ Start CAA "gripe list" - White paper? (Data?)
 - ❖ Amend CAA Title I, Title V, etc.

Potential Focus Group Topics

- > Sustainability
- > Environmental Justice
 - ❖ Community Relations
 - ❖ Outreach strategies

Oveo Report - March, 2013

- > “CIBO is not broken - but does need to evolve to address today’s more complex challenges. These adjustments could have strong, immediate, and scalable and many are constrained only by mindset”

CIBO 2025

- > How will be expand the scope/scale of CIBO?
 - ❖ Changing reliance on the various power/energy/thermal technologies and fuels
 - ◆ Boilers, Turbines, IC engines, Electricity, RPS driven fuels
 - ◆ What is the future of industrial boilers?
- > How will we meet the needs of owners/operators?
- > Who will lead CIBO?
- >

A word about Brain Science

- > The most well-known explanation for why people are [neurotic](#) came from the British psychologist Jeffery Gray, who suggested that neurotic individuals have a heightened sense of threat. He proposed this after observing how antianxiety drugs reduced the sensitivity of rodents to punishment cues and how they helped psychiatric patients relax.
- > "Gray had a useful and logical theory, but the problem is that it doesn't account for the full spectrum of neuroticism – it's pretty difficult to explain neuroticism in terms of magnified threat perception because high scorers often feel unhappy in situations where there is no threat at all," said paper lead author Adam Perkins, a personality researcher at King's College London, in a [press release](#). "The second problem is, there's literature showing neuroticism scores are positively correlated with creativity; and so why should having a magnified view of threat objects make you good at coming up with new ideas?"