

'Yes you can'

How to change GDP

Ehsan Masood

Editor, researchprofessional.com (including Research Fortnight)

Today's presentation is in 3 parts

Part One: About GDP and its problems

• Part Two: Why reform efforts have failed

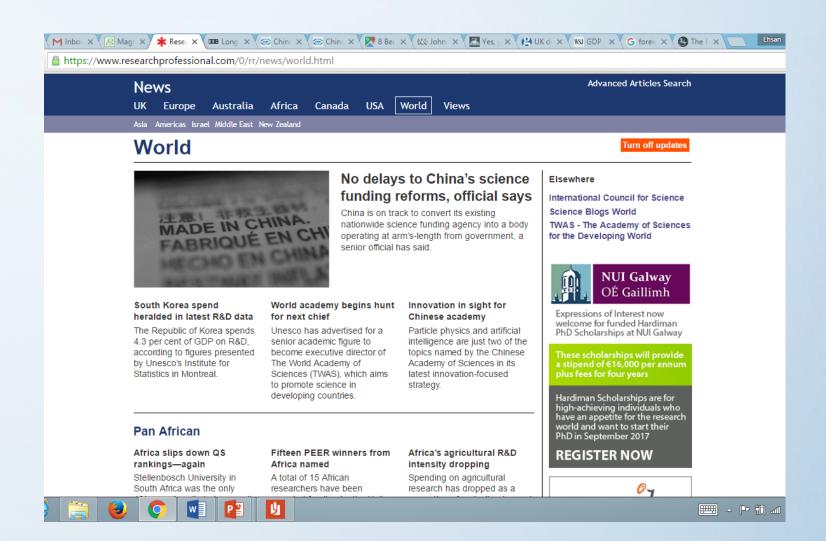
Part Three: How GDP can change

Please do ask questions. During the presentation. At the end. Any time later.

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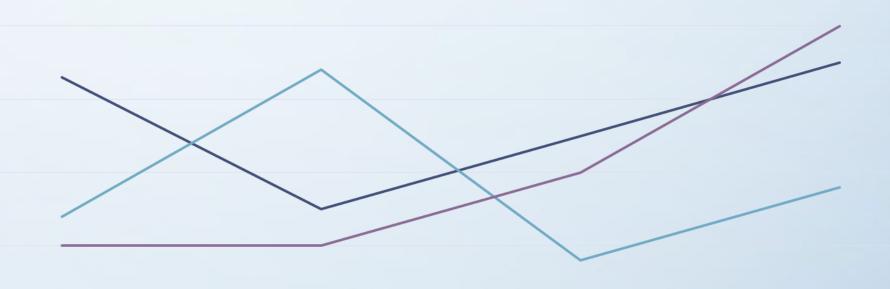
Part one
About GDP



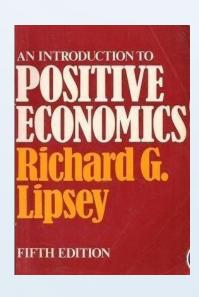
What do we know about GDP

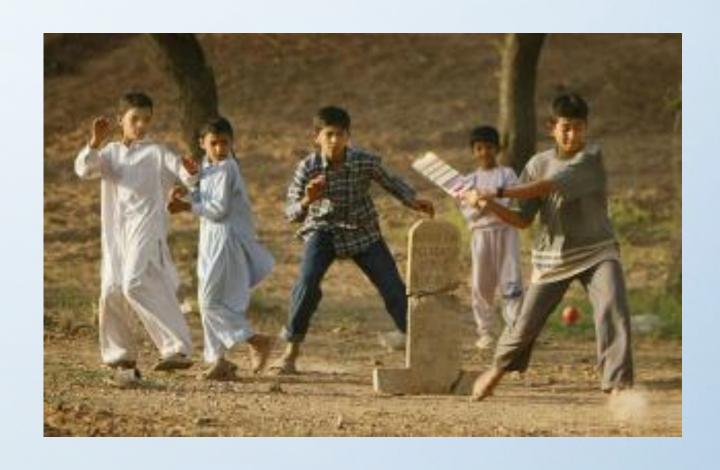
- Measure of spending as a proxy for growth or productivity
- Dictates how every government must run an economy.
- Designed in the UK/US in the years preceding WII when governments knew little about the state of their finances.
- 'The appliance of science'.
- Rapidly globalised through the UN and OECD.
- Rules set largely by developed countries. Can be gamed.
- No space to measure environment, quality of life, or wellbeing.
- Incentivises bad behaviour.

Why is a science-policy journalist writing about GDP?

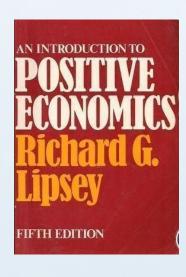


2 years of economics in Karachi





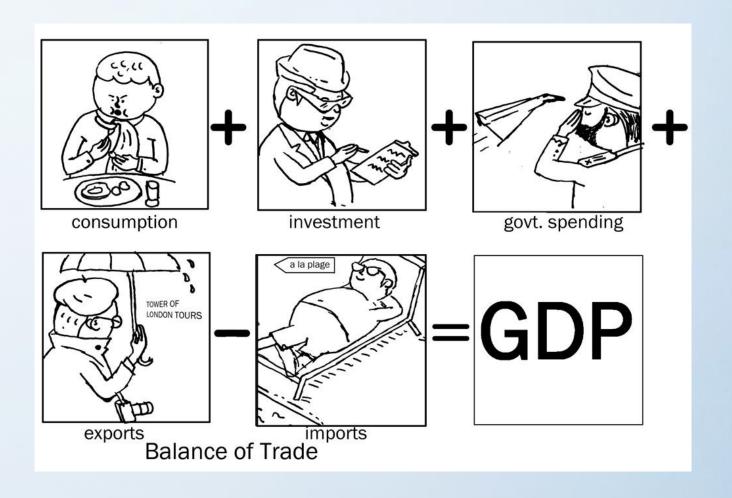
2 (more) years in London





Re-Introduced to the GDP formula

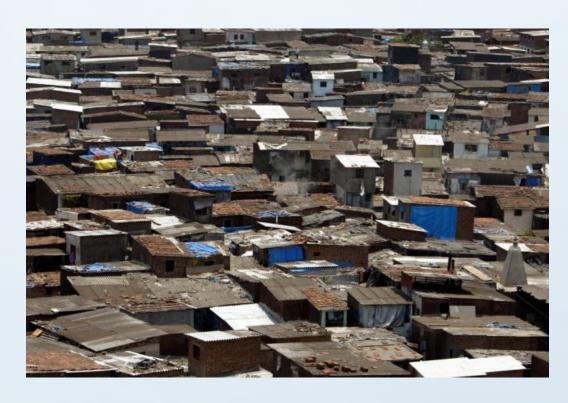
C+I+G+(X-M)



Why are we using the same measure to value world prosperity..

What does this society...

.. have in common with this?







Nature 387, 15 May 1997. Cover line: "Pricing the Planet".



The value of the world's ecosystem services and natural capital

Robert Contango", Ramin d'Arge I, Rodolf de Grooti, Stephen Forber, Monico Grassar, Brace Hancoon, Karts Livetergy", Shahed Barrers 1, Robert E. O'Modif 1, Jose Parastol 1, Robert G. Raskers, Paul Estimos A. Miarjam was deer Baillers

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The services of ecological systems and the natural copital stocks that produce them are critical to the functioning of the Earth's life support system. They contribute in human welfare, both directly and indirectly, and therefore represent part of the total economic ratios of the planet. We have estimated the correct economic value of 17 economics services. for 46 blomes, based on published atypies and a few original nativisations. For the entire bloughors, the value (seest of which is subside the market) is estimated to be in the range of \$160 to building (10°) per year, with an average of US\$37 tillion per year. Because of the nature of the uncertainties, this must be considered a minimum entirests. Bokel grass satismal preduct total is around US\$16 in West per year.

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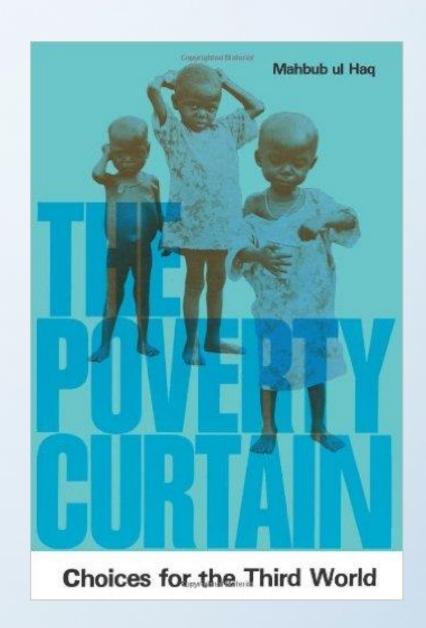
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MATRICIAN AND THE WORLDOOD

"One practical use of the estimates we have developed is to help modify systems of national accounting to better reflect the value of ecosystems services and natural capital."



Mahbub ul Haq, co-creator in 1990 (with Amartya Sen) of the Human Development Index



"Any measure that values a gun several hundred times more than a bottle of milk is bound to raise serious questions about its relevance to human progress."



Why efforts to reform GDP are failing

Part two

So we know it's harmful, why can't we do something about it?

Unity among economists and policymakers

- The alternatives are methodologically questionable
- Status quo is 'the best of the worst'.
- This consensus is defended by relatively influential people.



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GDP and Its Enemies

Gross domestic product was constructed to count things, not services. But would what a better measure be?



ECONOMICS

GDP in the dock

Diane Coyle savours a history of the long-standing economic measure and possible alternatives.



ECONOMICS

The GDP and its discontents

Can a single number ever really capture all of what matters about a society?

MEASURE THE SCALE FIRST

A new book, The Great Invention by Ehsan Masood, unveils the genesis of the Gross Domestic Product (GDP) and how it shaped the modern economic paradigm. It comes at a time when a growing number of people are questioning this flawed metric. Is GDP a true and accurate measurement of growth? Exclusive excerpts from the book, followed by a cross-section of views on the efficacy of GDP

Forbes

Is GDP Outmoded? Maybe, Maybe Not

And a divided opposition

- Human Development Index was a missed opportunity for reform
- Opposition fragmented and failing to engage with GDP politics
- Lots of support for the 'dashboard' approach

"Development means enlarging the choices, not of trees, but of people." Mahbub ul Haq in Reflections on Human Development

How to change GDP



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Australia

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Defence plans national broker for research grants

Australia's federal and state governments are to set up a national "one stop shop" to match university researchers with Defence science and technology projects.

UQ to cut administration jobs in 2017

The University of Queensland has announced plans to reduce administrative jobs, including research support and management, by 25 per cent as part of a major restructure in 2017.

C SIRO report targets climate research staff 'subculture'

Australia's top science agency needs to confront pockets of "staff activism" that threaten to undermine management decisions, a report has claimed.

Finkel says universities must tackle PhD 'glut'

Australia's chief scientist, Alan Finkel, has warned that universities must do more to address the "false expectations" that PhD graduates will find jobs that are linked to their specialist research skills.

Government Agencies

Policy advisor urges shakeup of education C SIRO to hold 'TED style' ocean research forum Rural agency reviews climate research funding

Canberra Playbook

Crime research merger creates 'super agency'

One of Australia's leading criminology research centres will become part of a new national criminal intelligence and law enforcement agency.

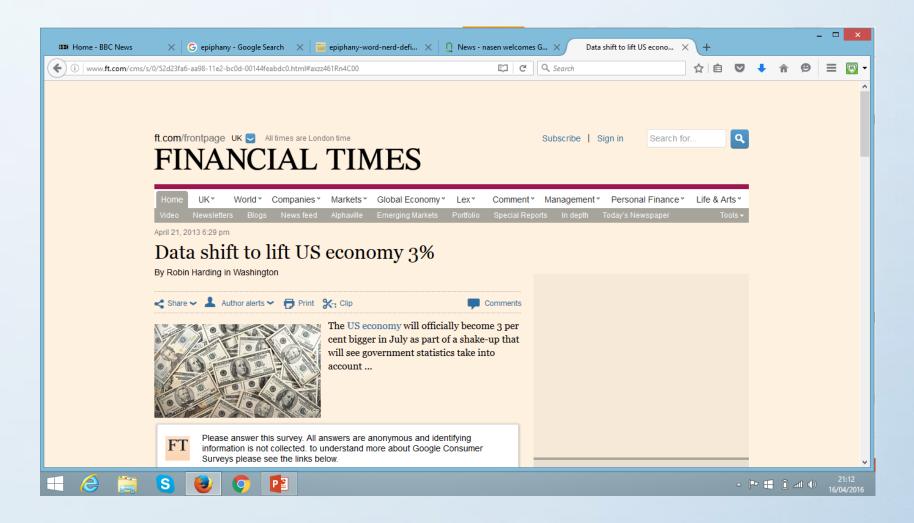
Voice tech deal links Macquarie with U.S firm

Macquarie University in Sydney has signed a deal with US company VoiceBox Technologies to set up a national research centre for speech recognition and voice navigation technologies.

Southern Cross helping Gold Coast surf startups

Wave pools, kite surfing and new technologies for surfboard design were among startup opportunities discussed at a one-day surfing research and business forum at Southern Cross University in

A chance discovery in The Financial Times



What the FT story showed

- R&D spending is to be transferred to the investment column of the national accounts
- The economies of OECD states will become larger as a result
- It showed there is a policy process in which the components of the GDP index are decided.

How did this change to GDP happen?

- The change is the result of a decades-long effort.
- In effect a campaign, led by richer countries, but largely hidden from the public—until now.
- Policymakers in London and Washington argue that the prime function of R&D is to make money.
- Academic weight for this view comes from science and innovation policy practitioners.
- The academic leadership knows it to be debatable, but is complicit because they know budgets are protected when the axe-wielders come.
- "What is measured matters".

But... Change happened inspite of methodological problems

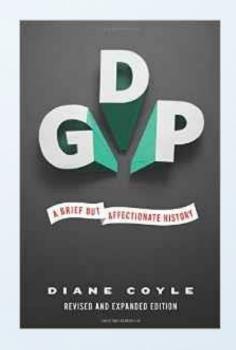
What are these problems?

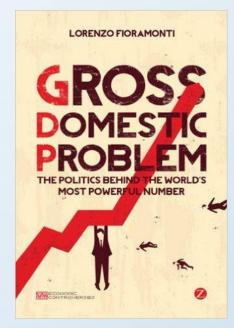
- R&D spend = public + commercial + philanthropic
- Most non-OECD countries (and some in the OECD) do not measure R&D with anything like the granularity of the US/UK.
- In some countries, all R&D spending is lumped together with universities/higher education.
- OECD countries with significant private R&D spending will see GDP gain.
- Countries with little private R&D spending will see little/no gain.
- The change benefits wealthier nations.

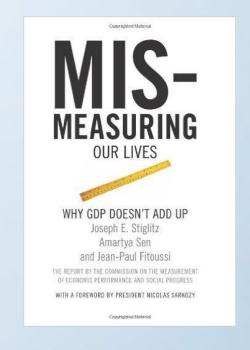
What lessons for GDP reform

- The R&D example shows that data accuracy is of secondary concern in GDP reform.
- Interests of rich countries need to be protected.
- Economic and Environmental communities will need to find common cause.
- The politics of the UN body that guards GDP must be mastered.
- If we start now, change will happen after 20 years.

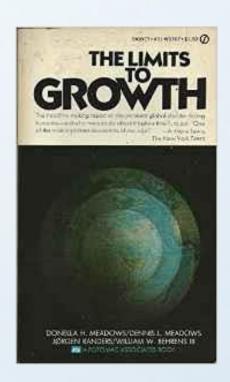
Further reading

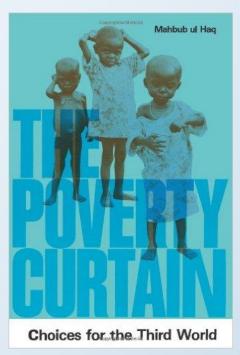


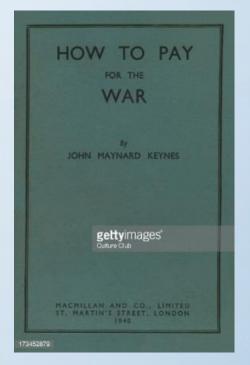




Further reading



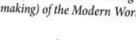




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The Great Invention The Story of GDP and the Making (and Unmaking) of the Modern World







Ehsan Masood