

Growing without changing: a tale of Egypt's weak productivity growth

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Motivation: Egypt's growth without change

Stylized facts

Decomposing labour productivity growth

Benchmarking Egypt's structural change performance

Counterfactual analysis: what if Egypt looked more like Turkey?

What explains structural change?

Policy recommendations: Igniting structural change in Egypt

Concluding remarks

Motivation: Egypt's growth without change



- High economic growth in Egypt in the decade preceding the 2011 revolution
- But this growth was not accompanied by wider development:
 - Relatively poor productivity growth
 - Stagnating per capita income
 - Persistently high unemployment
- We aim to investigate:
 - 1) Sectoral pattern of (productivity) growth witnessed in Egypt 2000-10
 - 2) How this compares to successful international experiences of structural growth
 - 3) Determinants of structural change
 - 4) Barriers holding Egypt back from transforming the structure of its economy
- Implications for long-term economic performance and social stability



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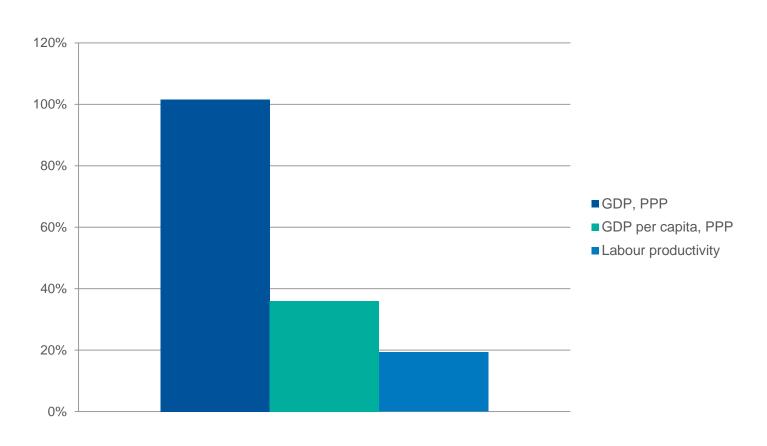
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Stylized fact 1: High growth not matched by labour productivity...



Cumulative growth, 2000-10 (%)

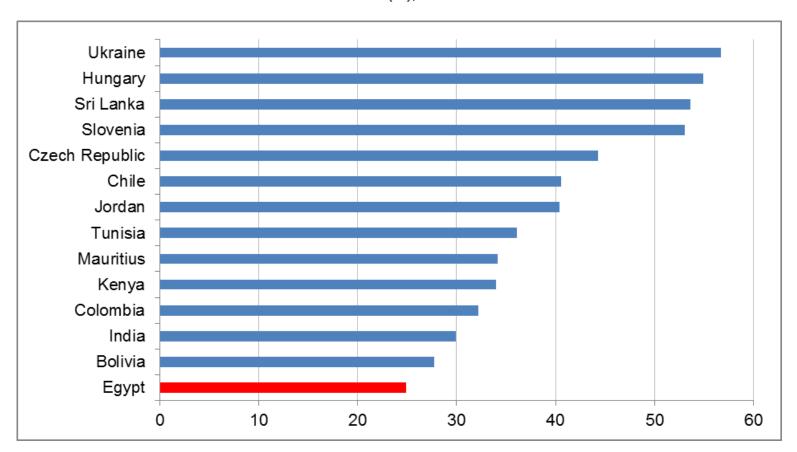


Source: Egypt Ministry of Planning, Egypt Labour Force Survey, CIA Factbook, World Bank

... contributing to a strikingly low and declining wage share of output



Unadjusted share of wages in GDP in selected countries (%), 2009



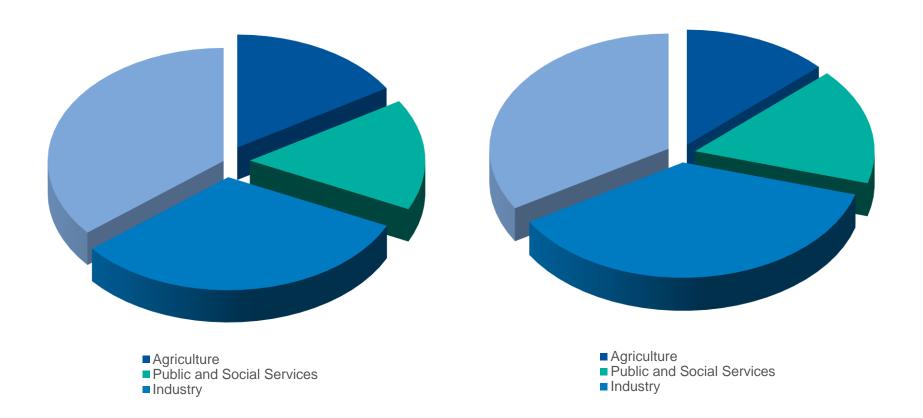
Source: International Labour Organization

Stylized fact 2: Output sectoral mix broadly unchanged over the decade



Sectoral distribution of real GDP, 2000

Sectoral distribution of real GDP, 2010

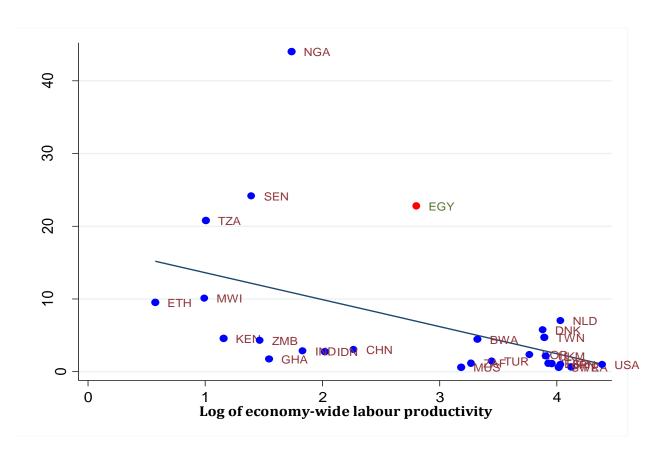


Source: Ministry of Planning and International Cooperation

Stylized fact 3: Comparatively large variations in productivity across sectors



Variation of productivity across sectors and economy-wide productivity



Source: Groningen Growth and Development Centre (GGDC) 10-Sector Database, World Input Output Database Socio-Economic Accounts (WIOD SEA), author's calculations



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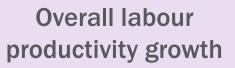
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"Within" sector productivity growth

Results from improvement of sector-level productivity (technology, economies of scale...)

"Structural change" productivity growth

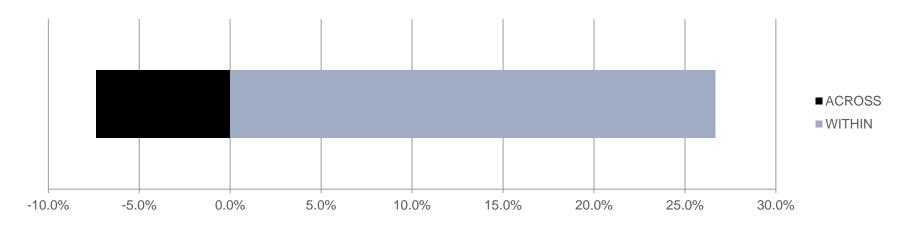
Results from the reallocation of labour from low to high productivity industries

Applying this to Egypt (2000-2010) reveals negative structural change



- "Within" sector productivity growth was positive, thanks to the adoption of more efficient production technologies or forms of organization
- "Across" sector structural change was <u>negative</u> and reduced aggregate labour productivity growth

Decomposition of labour productivity growth in Egypt, 2000-10



Source: Ministry of Planning and International Cooperation, Egypt Labour Force Survey, author's calculations



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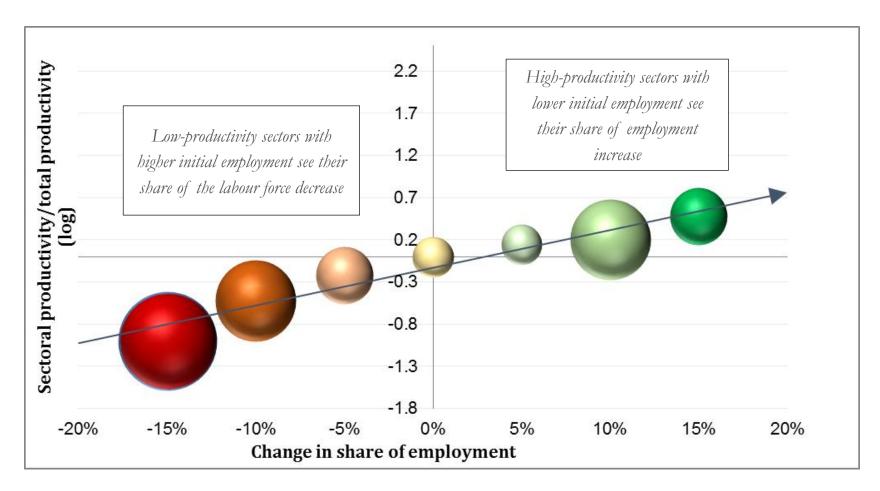
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Benchmarking Egypt's structural labour productivity growth: the "ideal" picture



A stylized view of the "ideal" structural change process

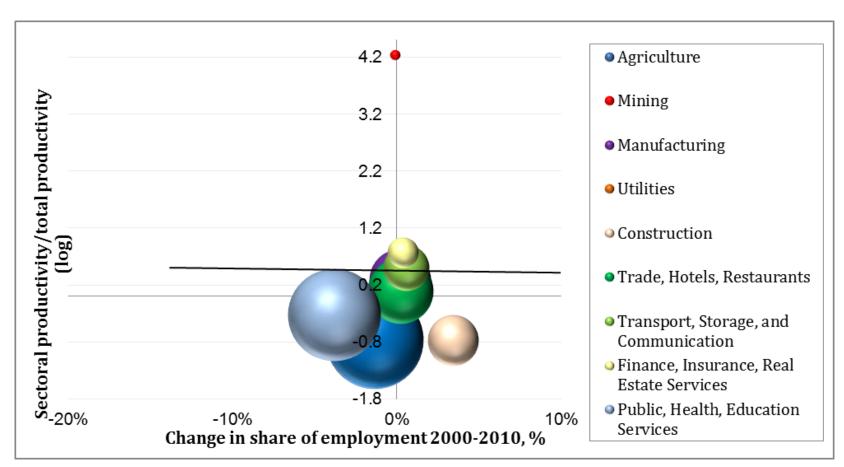


Source: Author's illustration

Benchmarking Egypt's structural labour productivity growth: Egypt's performance



Structural change in Egypt, 2000-10

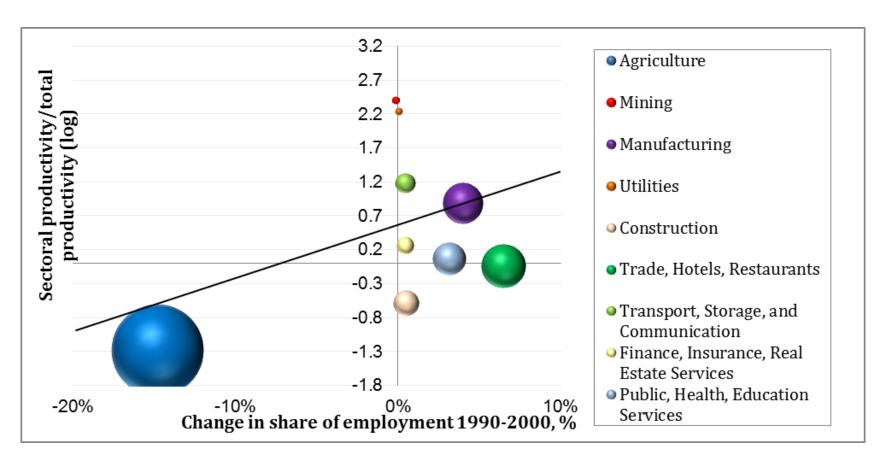


Source: Ministry of Planning and International Cooperation, Egypt Labour Force Survey, author's calculations

Benchmarking Egypt's structural labour productivity growth: Thailand's performance



Structural change in Thailand, 1990-2000

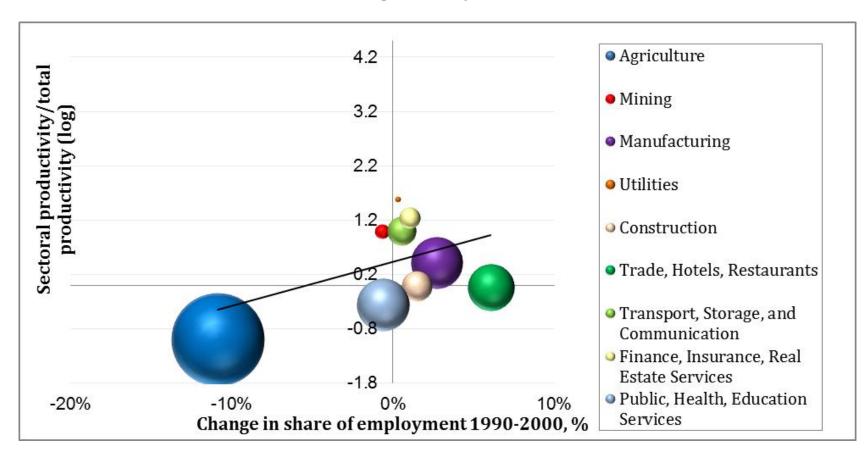


Source: Groningen Growth and Development Centre (GGDC) 10-Sector Database, World Input Output Database Socio-Economic Accounts (WIOD SEA), author's calculations

Benchmarking Egypt's structural labour productivity growth: Turkey's performance



Structural change in Turkey, 1990-2000



Source: Groningen Growth and Development Centre (GGDC) 10-Sector Database, World Input Output Database Socio-Economic Accounts (WIOD SEA), author's calculations



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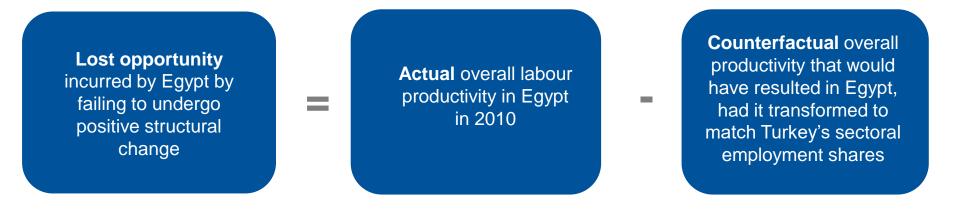
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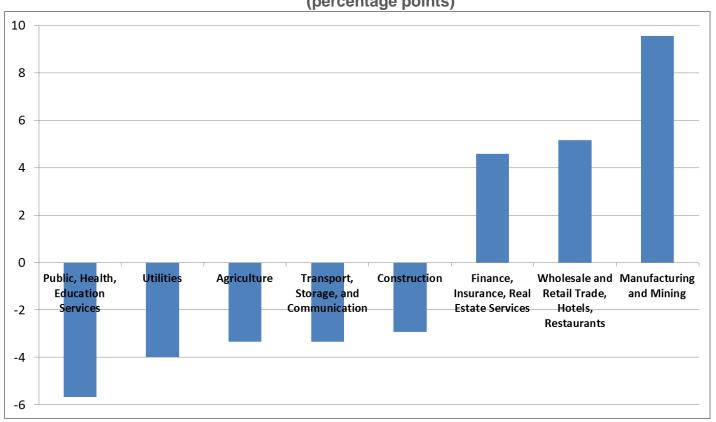
- We construct a counterfactual scenario where:
 - Egypt's within sector productivities remain as they were in 2010
 - But instead of using Egypt's actual across sector productivity changes, we calculate
 the counter-factual across sector productivity changes that would have resulted if the
 employment structure in Egypt evolved to look like Turkey's by the end of the decade.



Answer: improved sectoral mix leading to higher average labour productivity



Change in sectoral share in output (percentage points)



....leading to a
17% increase in
average labour
productivity

Source: Author's calculations



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What drives structural change?



• Based on cross-country analysis, we have identified the following key factors that affect the extent to which a country is able to undertake positive structural change:

Initial Conditions

- Initial share of agriculture in employment (+)
 - Large potential from having many workers in the primary sector to begin with
- Share of primary commodities in exports (-)
 - Dutch disease labour concentrates in sectors with existing comparative advantage at expense of more sophisticated sectors like manufacturing

Policy-driven changes

- Change in trade openness (+)
 - Increase in foreign competition incentivises more efficient allocation across sectors
- Growth in domestic credit to the private sector (+)
 - Access to financing is critical to the growth of firms in sectors with more modern sectors



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Two sets of policies are needed: Sector-level policies...



Agriculture

- Land consolidation to overcome high land fragmentation and allow farmers to exploit economies of scale
- Modernizing farming practices
- Better management of urbanization to preserve high quality arable land for agriculture

Manufacturing

 Adopting more energy-efficient technologies could expand areas such as food processing, biotechnology and labour-intensive consumer electronics

Services

- Develop ICT sector off-shoring and training
- Diversify origins and destination of tourists to develop the hospitality sector, and also indirectly benefit transportation and retail

...and cross-cutting reforms



Access to finance

- Increasing access to finance for SMEs in manufacturing and private services
- Address crowding out of private-sector lending by public sector

Industrial and trade policy

- Removing barriers to trade through a DCFTA with the EU
- Ending artificial support to less efficient industries through subsidies or lending by state-owned banks

Business climate

- Better defining property rights to incentivize the set-up of new industries
- Easing regulations and reducing discretionary enforcement
- Removing barriers to entry and exit and fostering competition

Labour market

- Increasing ease of hiring and firing to remove barriers to the efficient reallocation of workers across and within sectors
- Addressing the skills mismatch to better equip graduates to enter the marketplace and targeting the skills needed for higher-value added industries



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- Despite high growth rates, structural economic change contributed negatively to average labour productivity in Egypt over the decade 2000-10
- In contrast to dynamic emerging economies, Egypt has not tapped into the benefits of reallocating labour to higher value-added manufacturing and services sectors
- Both sector-specific policies and broader cross-cutting reforms have a role to play in achieving this transformation
- Positive structural economic change is critical to put Egypt on a higher, sustainable growth path, create jobs and ensure the country avoids the middle income trap
- The continuation of current trends has worrying implications for social stability as well as long-term economic performance

Thank you!

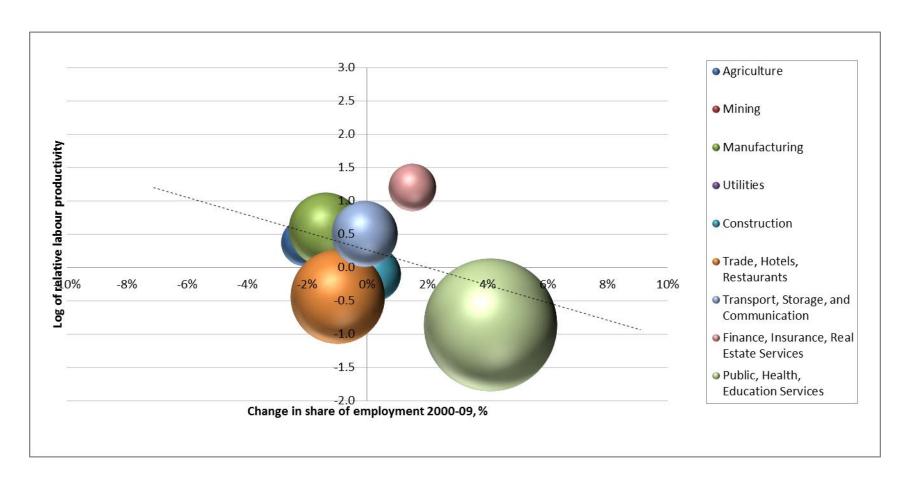


THE END Questions?

Annex – Jordan's structural transformation is also negative



Structural change in Jordan, 2000-09



Source: Author's calculations