
Garment workers in Bangladesh (taken by the speaker in 2008)

Cutting a part of a garment with scissors (Kenya, 2010)

Comments
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Short Introduction of Speaker

Speaker studied the textile industry in developing countries.

- Author, 「機械は人の敵か味方か？—低所得国のミシンと縫製エー」（フォト・エッセイ）『アジ研ワールド・トレンド』No. 226 2014年8月 49-52ページ
Will technological progresses reduce jobs in developing countries?

- Not always!!

But, get ready for that!! (Policy recommendations)

1. Education, Learning and Skill Formation -- Human Capital Index
2. Social Protection
3. Resource Mobilization - Taxation
Textile industry has been a battleground between technology and workers. (Luddite movement in the 19c)

Skilled workers, i.e. tailors, were lost by mass-production system and sewing machines.

- Lower-skilled sewing-machine-operators survived.
- A sewing robot "Sewbot" was invented in 2017!!

Automation machines did not sweep out manual labor right away.

- Relative costs (wage, price of the machine, cost for its operator) matter.
## Textile Value Chain

<table>
<thead>
<tr>
<th>Upstream</th>
<th>Downstream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capital intensive</td>
<td>Labor intensive</td>
</tr>
</tbody>
</table>

### Fiber
- Natural
- Artificial

### Yarn
- Filament
- Staple

### Fabrics (=Cloth)
- Woven
- Knit

### Garment (=Apparel; Clothing)
- Shirt; Trousers, etc.
- T-shirt; Polo-shirt; Pullover, etc.
- Sweater; Socks

### Textiles (narrow sense)

**Machines dominate**

**Workers survive**
Weaving Machines

Tailor-made and Mass Production

A tailor in danger (Gaibandha, Bangladesh, 2009)

Taiwanese factory in Athi River EPZ, Kenya (2014)
Shima Seiki Mfg, Ltd. invented the Wholegarment Knitting Machine in 1995. The above is another model of flat knitting machine made by Shima Seiki. (Bangladesh, 2008)

A manually operated flat knitting machine (Bangladesh, 2001)
Comment #2

Why not ODA for "resource mobilization"?

Policy recommendations (recap)

1. Education, Learning and Skill Formation -- Human Capital Index
2. Social Protection
3. Resource Mobilization - Taxation

Where have all the "partnerships" gone?

- ODA should be an important policy tool for resource mobilization!!
- Unilateralism is on the rise!! Was it refrained from mentioning ODA in the Report? It reminds of the Addis Ababa Action Agenda (2015).