

Four Reproducible Contributions in Development Economics

Bastiaan Quast

Department of International Economics
The Graduate Institute, Geneva

Jean-Louis Arcand
Richard Baldwin
Michael Kende

Thesis director
Internal Reader, President
External Reader

14 October 2016

Grandfathers and Grandsons

Effects of a Male-Only Change in Pensions

Four
Reproducible
Contribu-
tions in
Development
Economics

B.A. Quast

Grandfathers
and
Grandsons

Making the
Next Billion
Demand
Access

Global Value
Chains in
LICs

Motivation

- Income recipient and growth
- Growth and future income
- Grandmothers and Granddaughters:
 - South African pension, including black population
 - eligibility-age differential: women 65, men 60
 - life expectancy significantly lower: large selection bias

Identification Strategy

- Pension change (2010): men 65 \rightarrow 60, to a par
 - still selection bias based on life expectancy
- NIDS: 2008 (pre) & 2011 (post)

Making the Next Billion Demand Access

The Local-Content Effect of google.co.za in Setswana

Four
Reproducible
Contribu-
tions in
Development
Economics

B.A. Quast

Grandfathers
and
Grandsons

Making the
Next Billion
Demand
Access

Global Value
Chains in
LICs

Motivation

- Two-Sided Market / Cross-side network effects
- WWW content is hard
- Social media content is easier: Facebook vendor lock-in

Quantifying Content

- using visit counts instead of page counts

Endogeneity

- Maybe Google introduced the interface following increased usage among Setswana speakers?
- Botswana speaks Setswana
- google.co.bw was translated in Setswana
- introduction on google.co.za was a spillover, exogenous
- google.co.za also introduced Xhosa, but not exogenous

Global Value Chains in Low Income Countries

TiVa dataset

Four
Reproducible
Contributions in
Development
Economics

B.A. Quast

Grandfathers
and
Grandsons

Making the
Next Billion
Demand
Access

Global Value
Chains in
LICs

Implement trade decomposition procedures in R

- Leontief
- Wang Wei Zhu (2013)

Motivation:

- simplify for end users
- consistent and transparent approach

Additional work:

- gvc package: implement indicators
- Interactive demo: <http://shiny.qua.st/decompr>
- RStudio Add-in: GUI (soon)

Implement trade decomposition procedures in R

- Leontief
- Wang Wei Zhu (2013)

Grandfathers and Grandsons

Effects of a Male-Only Change in Pensions

Four
Reproducible
Contribu-
tions in
Development
Economics

B.A. Quast

Appendix:
Comments

**Grandfathers
and
Grandsons**

Making the
Next Billion
Demand
Access

Global Value
Chains in
LICs

Comments

- Income recipient and growth
- Growth and future income
- Grandmothers and Granddaughters:

Making the Next Billion Demand Access

The Local-Content Effect of google.co.za in Setswana

Four
Reproducible
Contribu-
tions in
Development
Economics

B.A. Quast

Appendix:
Comments

Grandfathers
and
Grandsons
Making the
Next Billion
Demand
Access

Global Value
Chains in
LICs

Comments

- Two-Sided Market / Cross-side network effects
- WWW content is hard
- Social media content is easier: Facebook vendor lock-in

Global Value Chains in Low Income Countries

R package: decomp

Four
Reproducible
Contribu-
tions in
Development
Economics

B.A. Quast

Appendix:
Comments

Grandfathers
and
Grandsons
Making the
Next Billion
Demand
Access

Global Value
Chains in
LICs

Implement trade decomposition procedures in R

- Leontief
- Wang Wei Zhu (2013)