Using data to re-engineer education for skills and employability

25 Sep 2018
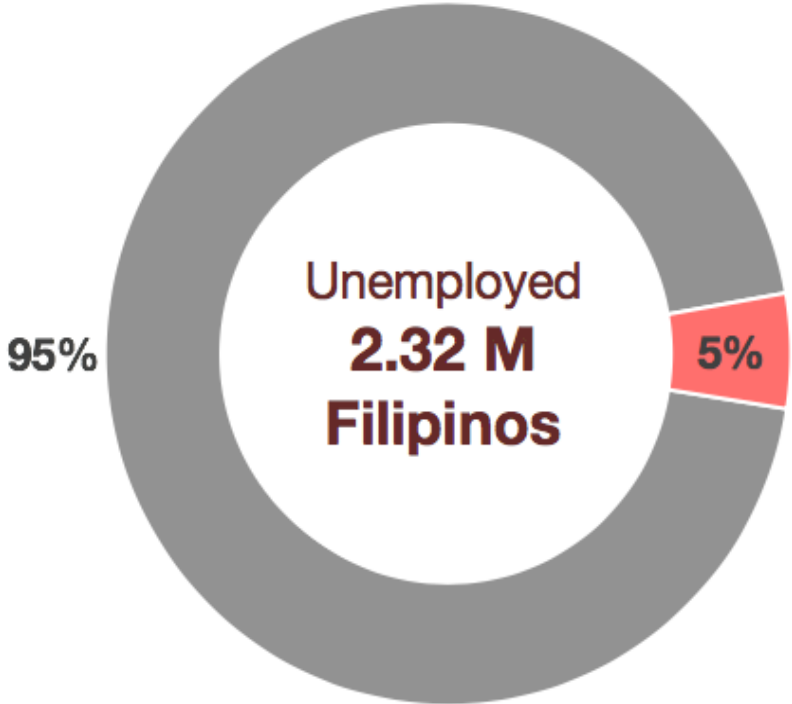
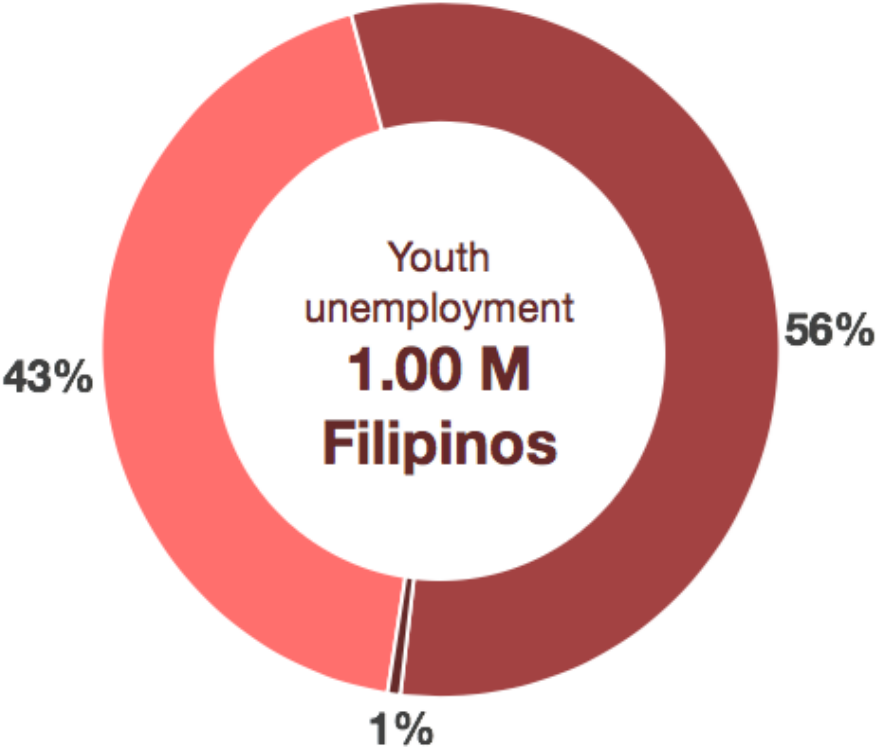**PBEd** PHILIPPINE BUSINESS for EDUCATION

The Problem

Many **students** are *not learning,* and **graduates** are *not employed.*

Half of our unemployed are the youth

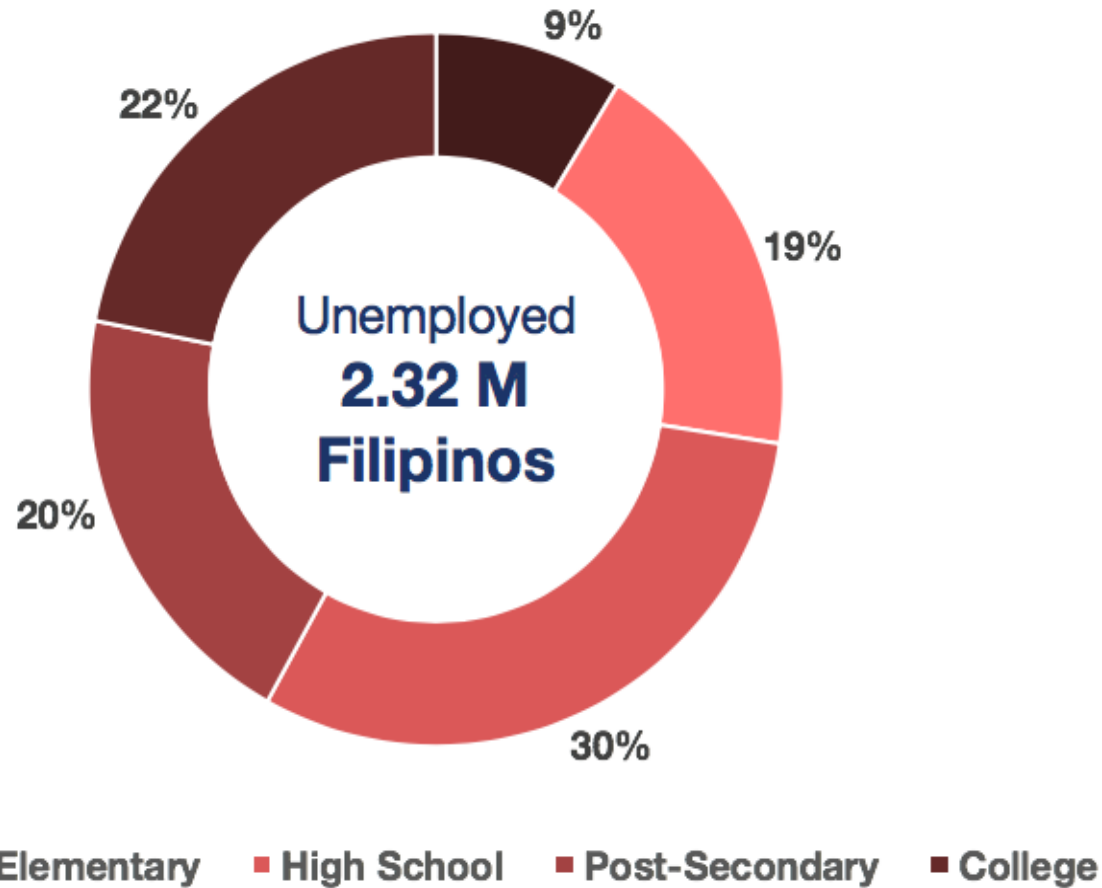## PH unemployment, Jan. 2018
by age group

Unemployed
2.32 M Filipinos

95%

5%

■ Employed ■ Unemployed

Youth unemployment
1.00 M Filipinos

43%

56%

1%

■ 15-24 ■ 24 to 64 ■ 65 and over

PSA, 2018

Many of them with college degrees

PH unemployment, Jan. 2018
by educational attainment

Unemployed
2.32 M Filipinos

9%
19%
22%
20%
30%

■ None ■ Elementary ■ High School ■ Post-Secondary ■ College

For every 5
unemployed Filipinos
3 have a high school diploma,
and 1 a college degree

PSA, 2018

We've made great strides to try to address these challenges
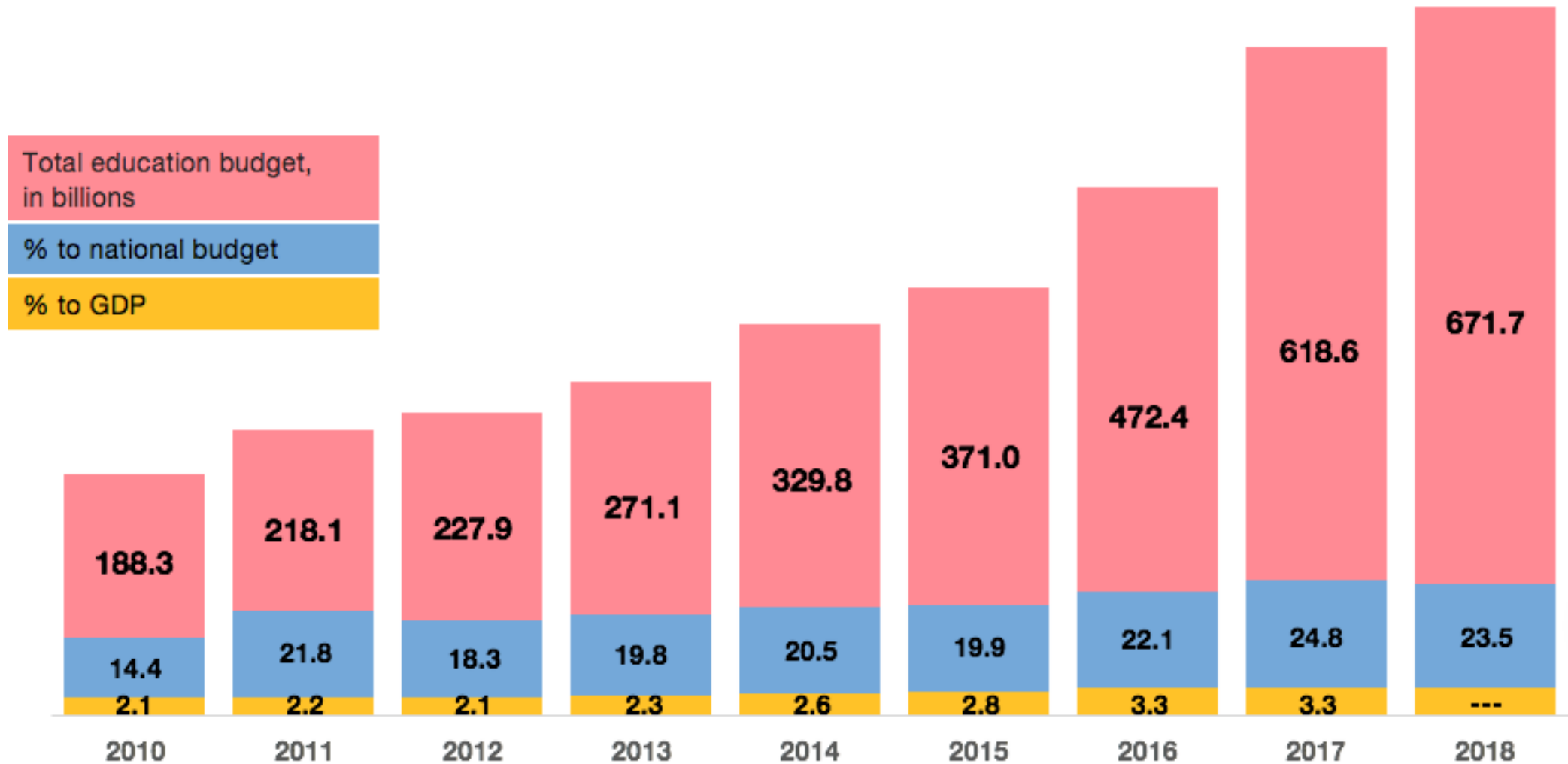
By institutionalizing various key reforms and efforts

K to 12 system

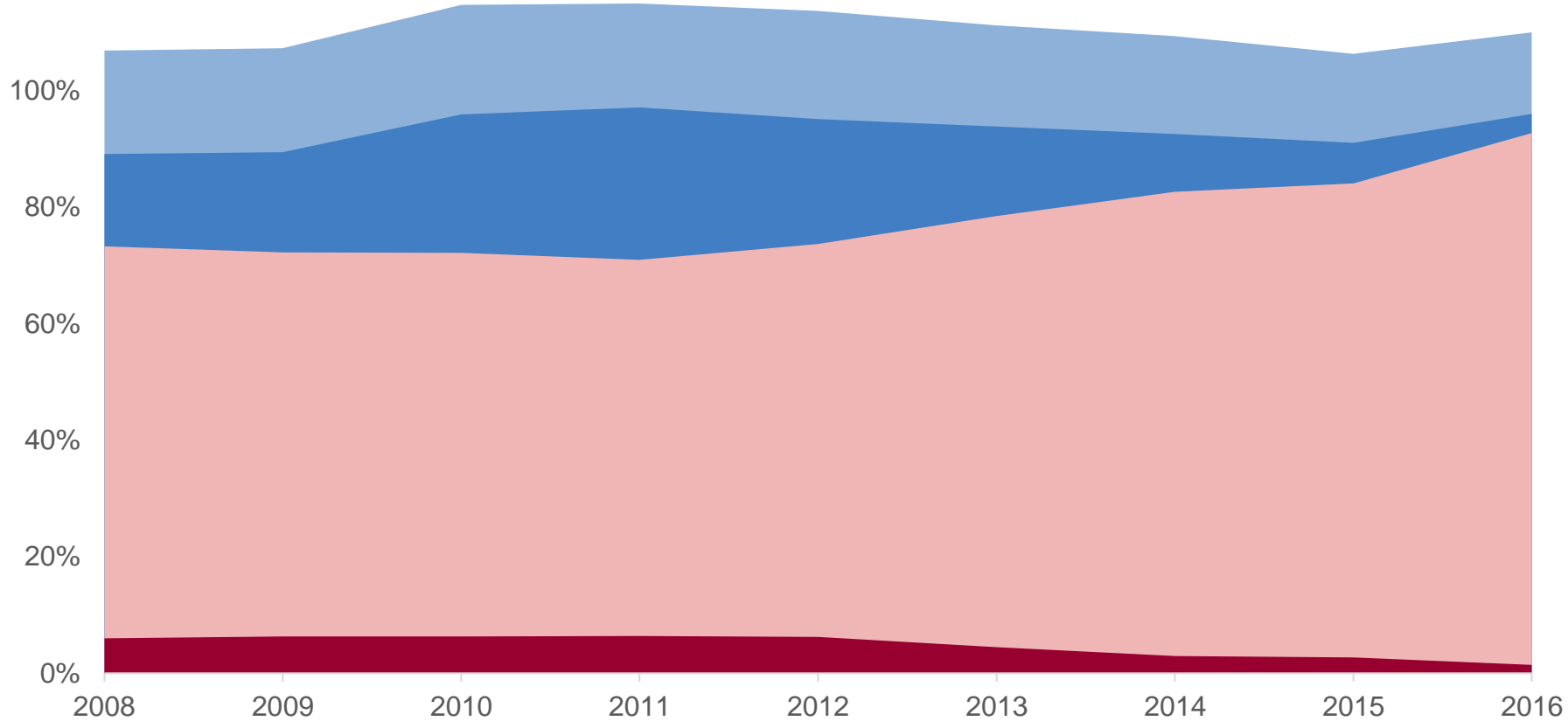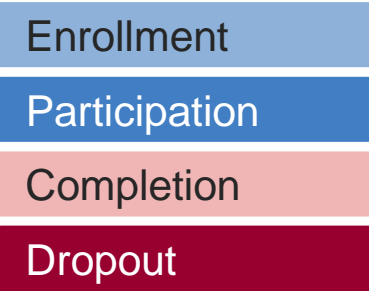Mother tongue based learning

National industry – academe council

More accessible post-secondary education

And expanded investments in education

Total education budget, in billions
% to national budget
% to GDP

	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total education budget, in billions	188.3	218.1	227.9	271.1	329.8	371.0	472.4	618.6	671.7
% to national budget	14.4	21.8	18.3	19.8	20.5	19.9	22.1	24.8	23.5
% to GDP	2.1	2.2	2.1	2.3	2.6	2.8	3.3	3.3	---

DBM, 2018

More children now have access to school

Basic education outputs, 2008-2016

Enrollment
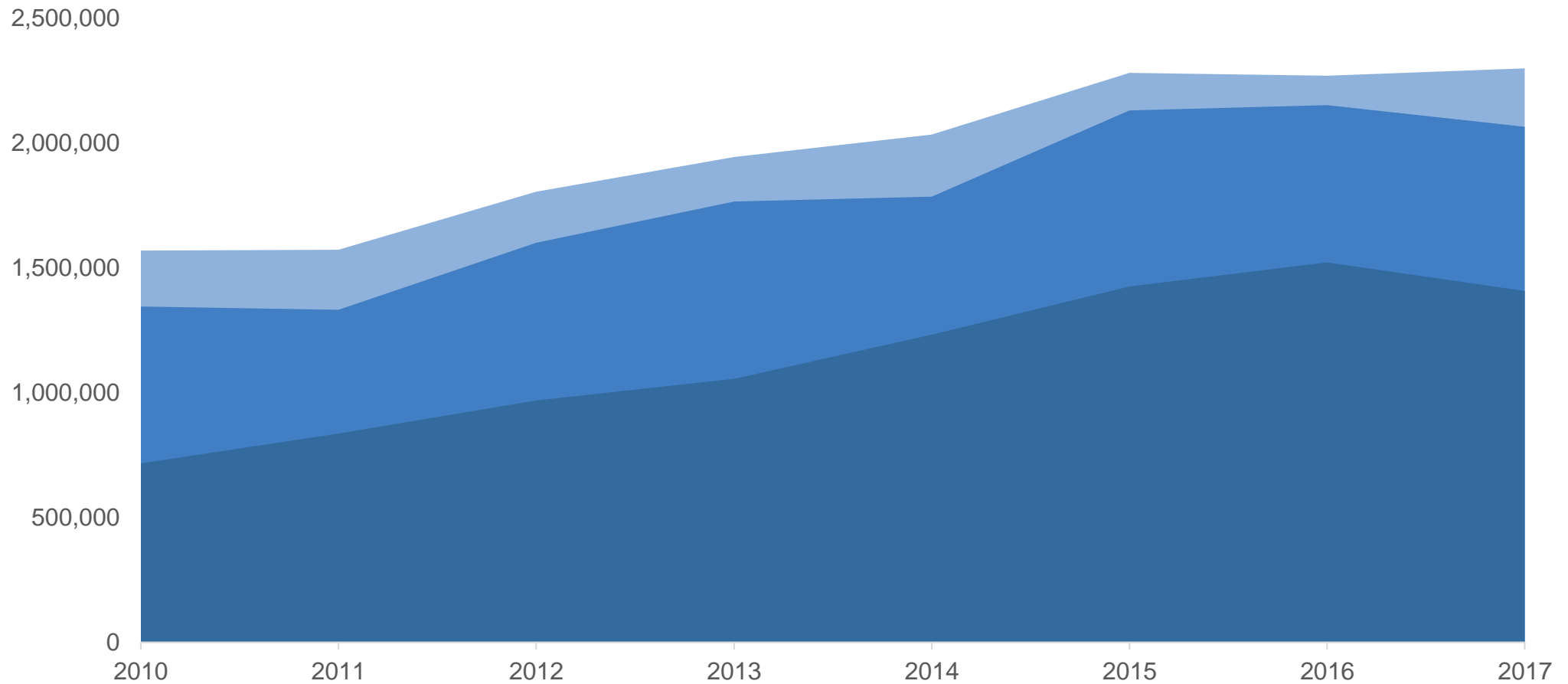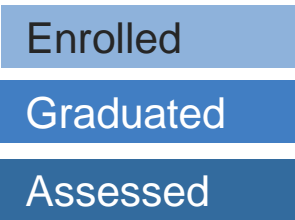Participation
Completion
Dropout

Participation
Enrolment for age group
corresponding to official school age

DepEd, 2016

Many of them pursuing college

Higher education outputs, 2010-2016

Enrolled
Graduated

4,500,000
4,000,000
3,500,000
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0

2010   2011   2012   2013   2014   2015   2016

CHED, 2017

And tech-voc education

Enrolled
Graduated
Assessed

2,500,000

2,000,000

1,500,000

1,000,000

500,000

0

2010   2011   2012   2013   2014   2015   2016   2017

TESDA, 2017
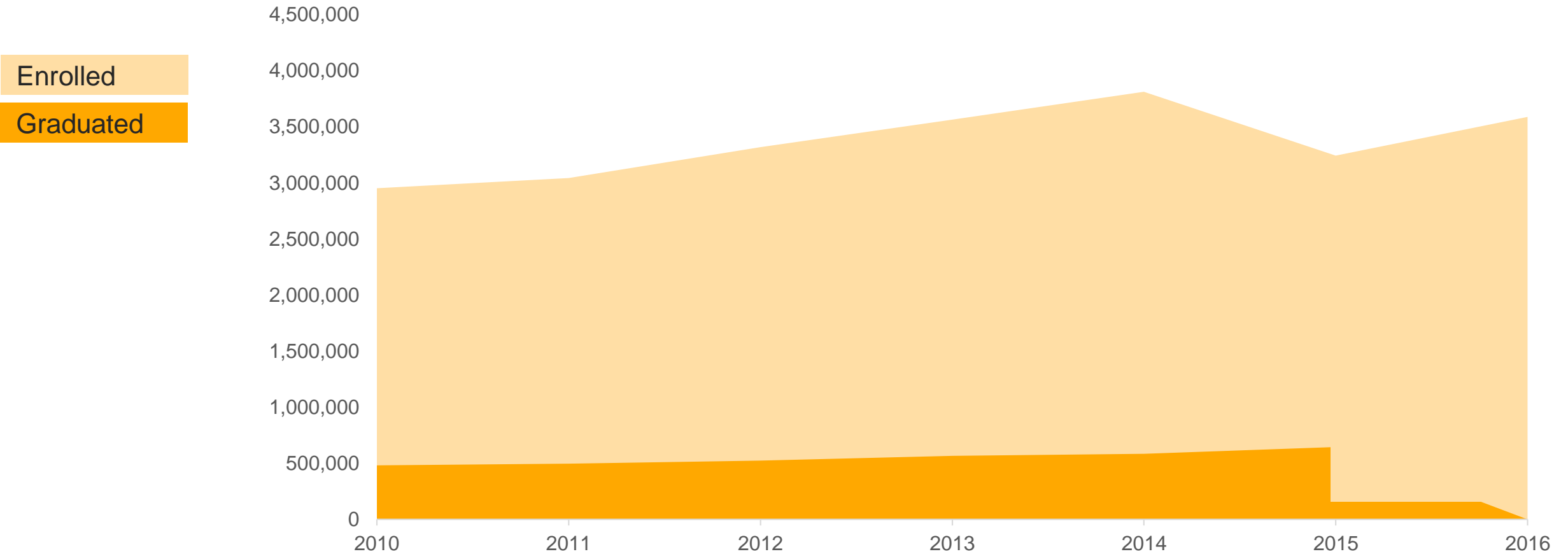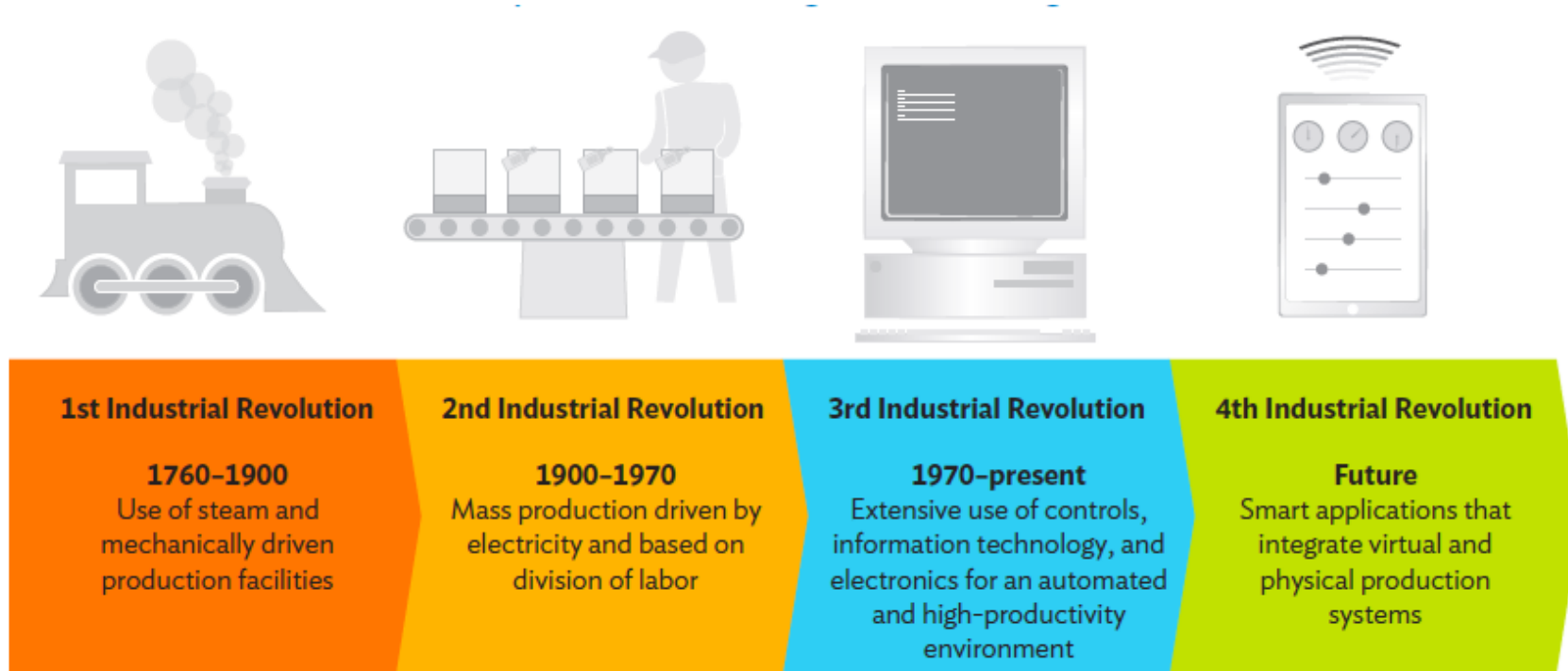
But we need to do more

**and teach <u>skills</u> that
are relevant and meaningful
to the workplace**

The 4th Industrial Revolution is upon us

1st Industrial Revolution	2nd Industrial Revolution	3rd Industrial Revolution	4th Industrial Revolution
1760–1900 Use of steam and mechanically driven production facilities	**1900–1970** Mass production driven by electricity and based on division of labor	**1970–present** Extensive use of controls, information technology, and electronics for an automated and high-productivity environment	**Future** Smart applications that integrate virtual and physical production systems

According to the World Economic Forum 2016, there will be a net loss of **5 million** jobs in **15 major and emerging economies** by the year 2020 because of the Fourth Industrial Revolution.
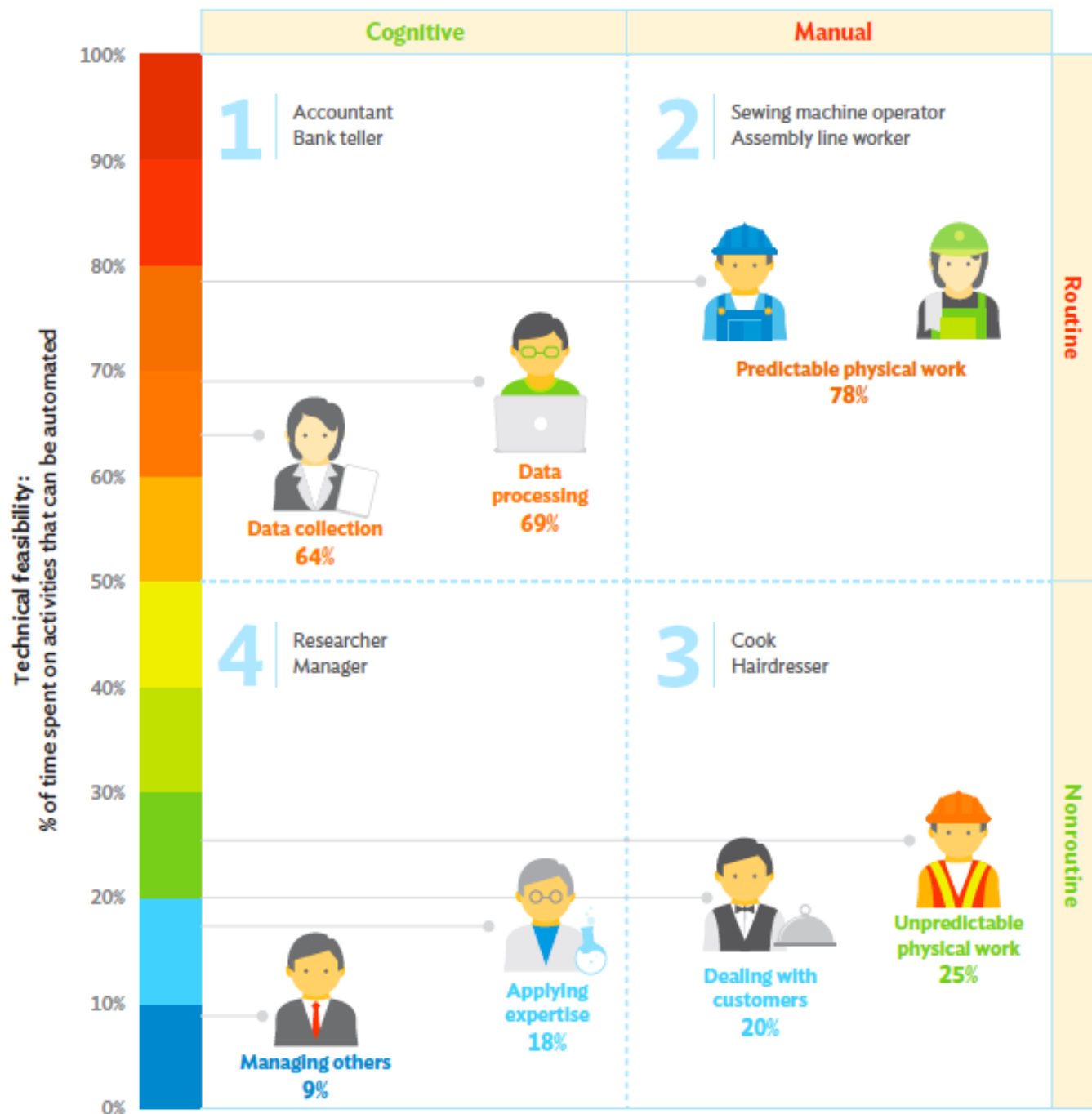
Completely changing the world of work

Technological change and economic growth **create new occupations** and industries.

ADB, 2018

Alignment can only happen when data is available

Labor market information

Labor and supply demand

The local economy

Employment rates

Future labor trends

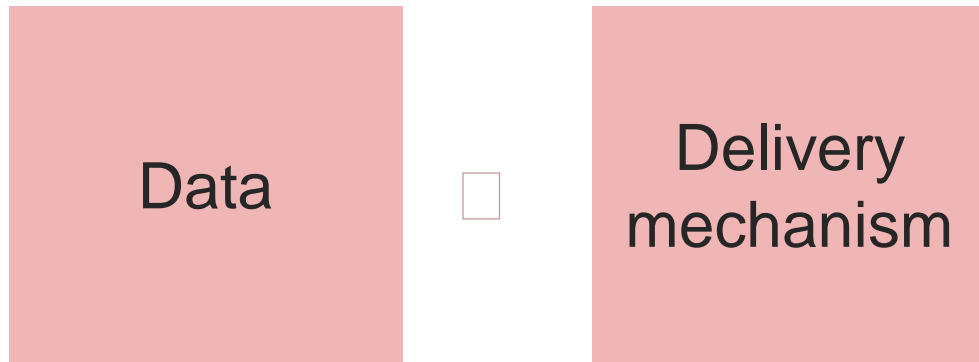Information on jobs and sectors

Skills and qualifications

Information on education and training

Turning labor market information into labor market intelligence

Turning labor market information into labor market intelligence
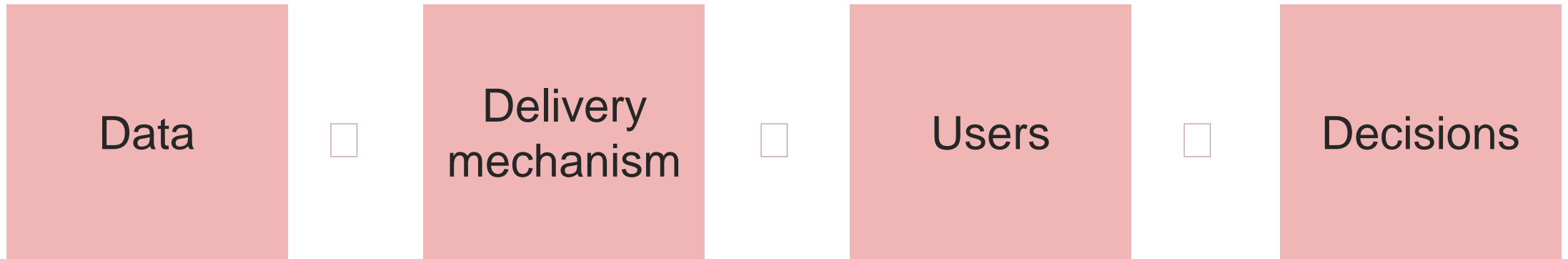
Data

Turning labor market information into labor market intelligence

Data ⬜ Delivery mechanism

Turning labor market information into labor market intelligence

Data → Delivery mechanism → Users

Turning labor market information into labor market intelligence

| Data | → | Delivery mechanism | → | Users | → | Decisions |

Align education and workforce training to industry needs

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Inform career decisions of students and workers

Align education and workforce training to industry needs

Inform career decisions of students and workers

Determine priority areas and allocation of resources

Align education and workforce training to industry needs

Inform career decisions of students and workers

Determine priority areas and allocation of resources

Determine effectiveness of training and education programs

Turning labor market information into labor market intelligence

1. Start small
2. Begin at a regional and sectoral level
3. Activate key players
4. Create mechanisms for sustainability
5. Make information more accessible to end
    users

Thank you!

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