



APES WEEK 2019

ASIA-PACIFIC ECONOMIC STATISTICS WEEK

Integrating economic statistics in monitoring the 2030 Agenda

Study of Consumer Price Index based on E-Commerce in Indonesia

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Overview

1. Growth in E-Commerce
2. New data collection opportunity
3. New statistical production opportunity
4. Web Scraping
5. Experimental Web Scraped CPI

Results

- Once per week, 14 websites, over 20,000 products classified into 167 commodities.

E-Commerce CPI v BPS CPI	Commodity count	% of count
Same direction	69	41%
Different direction (E-Com up)	24	14%
Different direction (E-Com down)	65	39%
Insufficient data	9	5%
Total	167	100%

Challenges for production

1. Accuracy
2. Classification
3. Quality Estimation
4. Quantity Estimation
5. Estimation by Region



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Lessons learned

1. Need both classical and E-Commerce
 - Accuracy
 - Coverage
2. Best to work with E-Commerce sites
 - Reliable
 - More data items
3. More research into classification needed



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Thank you