

INNOVATION STATISTICS IN VIETNAM

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- Legal bases
- Science, Technology and Innovation Indicators
- Data Sources
- Innovation Survey
- Limitations

LEGAL BASES

• Statistical Law (2015): regulated National Statistical Indicator System (NSIS), defining some Science, Technology and Innovation Indicators that GSO and other Ministries must report to Government periodically. Statistics in NSIS published by GSO.

 Circular No. 03/2018/TT-BKHCN (Ministry of Science and Technology - MOST): regulated The Scientific and Technological Indicator System (MOSTIS). Statistics in MOSTIS published by MOST.

SCIENCE, TECHNOLOGY AND INNOVATION INDICATORS

NSIS: 7 indicators

- Number of science and technology organizations
- Number of personnel in science and technology organizations
- Number of personnel participating in scientific research and technological development activities
- Number of patented inventions
- Technological and equipment innovation index
- The ratio of expenditure on technological innovations to total fixed capital in enterprises
- Expenditure on scientific research and technological development activities



SCIENCE, TECHNOLOGY AND INNOVATION INDICATORS (cont)

• MOSTIS: 53 indicators, 10 groups: Infrastructure; Personnel; Finance; R&D; Innovation and Technological Transfer; Intellectual Property; Scientific and Technological Publication...

Key Innovation indicators:

- Technological and equipment innovation index
- The ratio of expenditure on technological innovations to total fixed capital in enterprises
- The share of firms with one or more types of product/process innovations

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DATA SOURCES

- Administrative Data: National Statistical Reporting System
- Surveys:
 - 1. Enterprise Survey (annual): Module of Technology Used in Manufacturing (applied to Manufacturing Enterprises)
 - 2. Survey of Scientific Research and Technological Development (biennial)
 - 3. Survey of Scientific and Technological Potential of Science and Technology Organizations (every 5 years)
 - 4. Business Innovation Survey: ongoing, conducted first time on Apr 2019

BUSINESS INNOVATION SURVEY

- **Ongoing survey**: started 1st Apr 2019, conducted by MOST in collaboration with GSO
- **Paper-based** (printed survey): combination of both face-to-face interviewing and postal
- **Economic activities:** Manufacturing (section C ISIC)
- Sample size and Sampling: 2000 enterprises (large, medium and small, not micro), stratification by economic activity (C10-C33) and unit size (number of employees)
- **Observation period**: One year



BUSINESS INNOVATION SURVEY (cont)

• 30 questions in 10 sections:

- (1) General information: name, ..., employment, performance, equipment and machinery, fund and human resources for R&D.
- (2) Innovation activities: new or improved products/processes
- (3) Implementing situations of innovation activities: costs, ongoing/stopping...
- (4) Factors affecting innovation activities
- (5) State/Government supports
- (6) Fund for innovation activities
- (7) Cooperation for innovation activities
- (8) Information sources for innovation activities
- (9) Property rights: patent applications / granted patents
- (10) Drives and Obstacles



- **Target population:** Manufacturing enterprises (section C ISIC) only.
- **Sampling:** NOT consider some issues such as stratification sampling by region and enterprise age; heterogeneous; strata with few units; main economic activities.
- Questionnaire: paper-based only, same form for all enterprises.

The end

Thank you!