



## BRAZIL

**54th** Brazil ranks 54th among the 132 economies featured in the GII 2022.

The Global Innovation Index (GII) ranks world economies according to their innovation capabilities. Consisting of roughly 80 indicators, grouped into innovation inputs and outputs, the GII aims to capture the multi-dimensional facets of innovation.

The following table shows the rankings of Brazil over the past three years, noting that data availability and changes to the GII model framework influence year-on-year comparisons of the GII rankings. The statistical confidence interval for the ranking of Brazil in the GII 2022 is between ranks 50 and 55.

### Rankings for Brazil (2020–2022)

| GIIYR | GII | Innovation inputs | Innovation outputs |
|-------|-----|-------------------|--------------------|
| 2020  | 62  | 59                | 64                 |
| 2021  | 57  | 56                | 59                 |
| 2022  | 54  | 58                | 53                 |

- Brazil performs better in innovation outputs than innovation inputs in 2022.
- This year Brazil ranks 58th in innovation inputs, lower than last year but higher than 2020.
- As for innovation outputs, Brazil ranks 53rd. This position is higher than both 2021 and 2020.

**9th** Brazil ranks 9th among the 36 upper-middle-income group economies.

**2nd** Brazil ranks 2nd among the 18 economies in Latin America and the Caribbean.

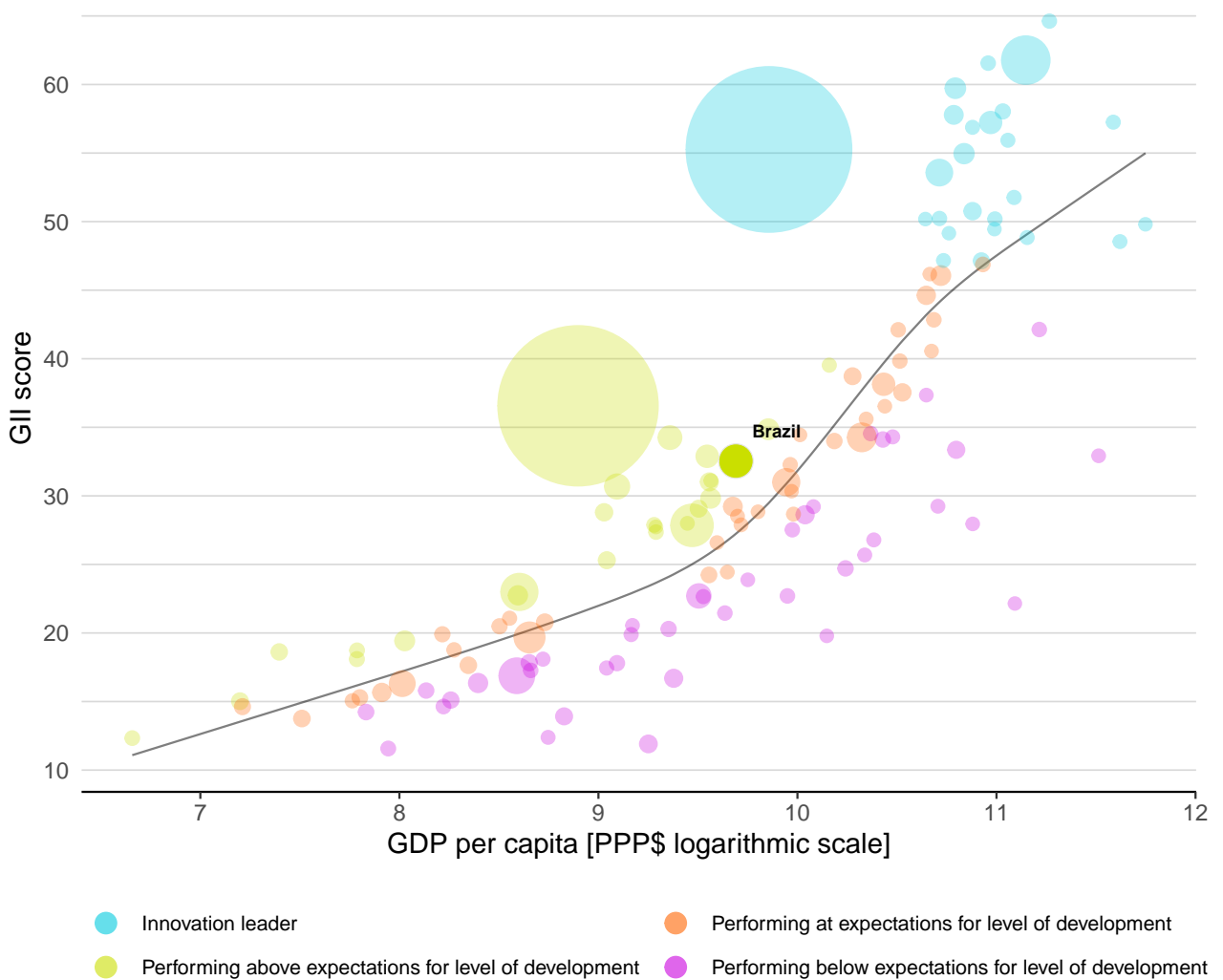


## EXPECTED VS. OBSERVED INNOVATION PERFORMANCE

The bubble chart below shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected and those below are performing below expectations.

Relative to GDP, Brazil's performance is above expectations for its level of development.

### The positive relationship between innovation and development



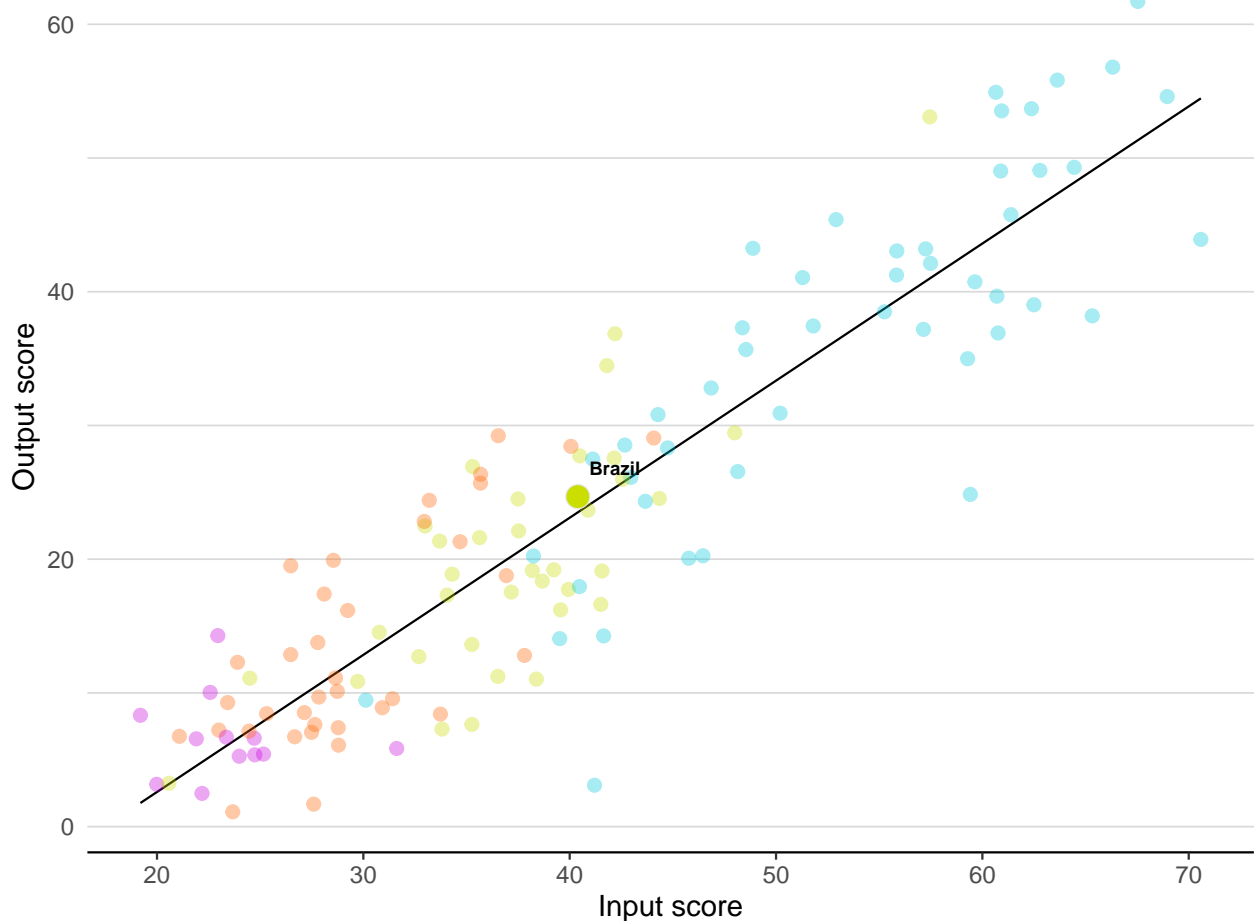


## EFFECTIVELY TRANSLATING INNOVATION INVESTMENTS INTO INNOVATION OUTPUTS

The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.

Brazil produces more innovation outputs relative to its level of innovation investments.

### Innovation input to output performance

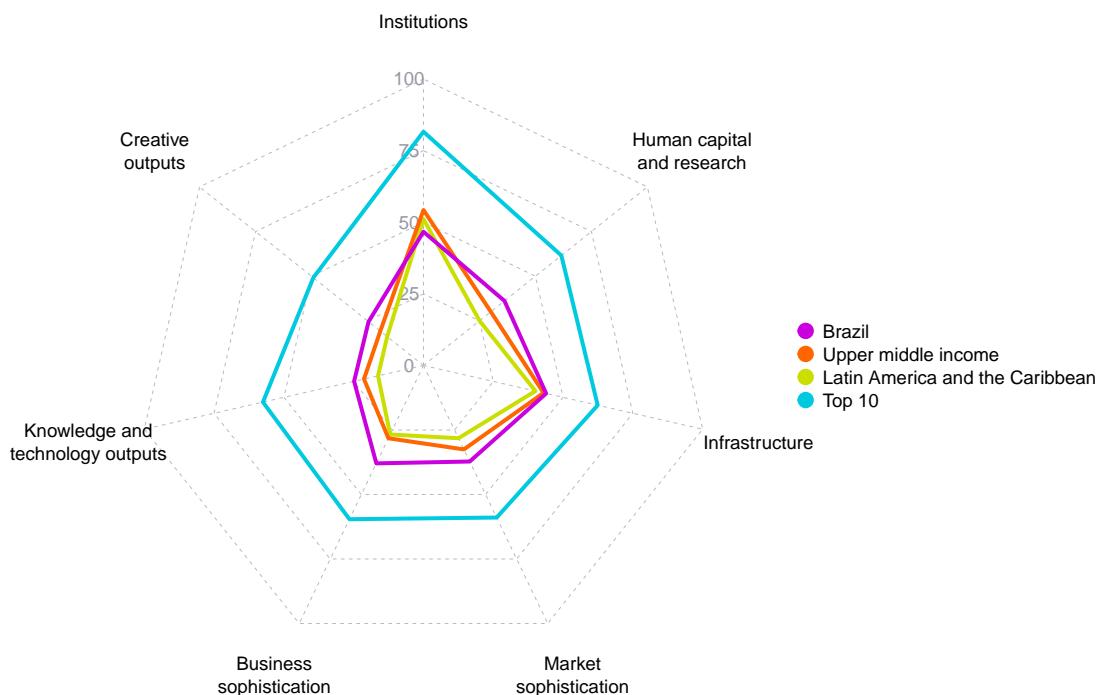


Income    ● High income    ● Upper middle    ● Lower middle    ● Low income    — Fitted line



## BENCHMARKING AGAINST OTHER UPPER MIDDLE-INCOME GROUP ECONOMIES AND LATIN AMERICA AND THE CARIBBEAN

### The seven GII pillar scores for Brazil



#### Upper-middle-income group economies

Brazil performs above the upper-middle-income group average in six pillars, namely: Human capital and research; Infrastructure; Market sophistication; Business sophistication; Knowledge and technology outputs; and, Creative outputs.

#### Latin America and the Caribbean

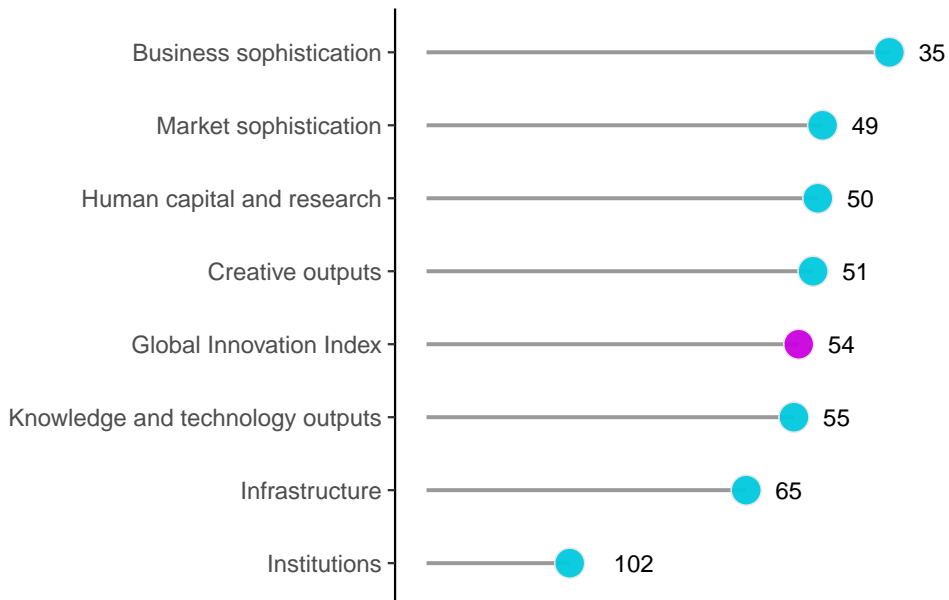
Brazil performs above the regional average in six pillars, namely: Human capital and research; Infrastructure; Market sophistication; Business sophistication; Knowledge and technology outputs; and, Creative outputs.



## OVERVIEW OF RANKINGS IN THE SEVEN GII 2022 AREAS

Brazil performs best in Business sophistication and its weakest performance is in Institutions.

### The seven GII pillar ranks for Brazil



Note: The highest possible ranking in each pillar is 1.

**The full WIPO Intellectual Property Statistics profile for Brazil can be found at:**

[https://www.wipo.int/ipstats/en/statistics/country\\_profile/profile.jsp?code=BR](https://www.wipo.int/ipstats/en/statistics/country_profile/profile.jsp?code=BR).

## INNOVATION STRENGTHS AND WEAKNESSES

The table below gives an overview of the indicator strengths and weaknesses of Brazil in the GII 2022.








### Strengths and weaknesses for Brazil

| Strengths |                                               |      | Weaknesses |                                             |      |
|-----------|-----------------------------------------------|------|------------|---------------------------------------------|------|
| Code      | Indicator name                                | Rank | Code       | Indicator name                              | Rank |
| 2.1.1     | Expenditure on education, % GDP               | 20   | 1.3.1      | Policies for doing business                 | 103  |
| 3.1.3     | Government's online service                   | 20   | 1.3.2      | Entrepreneurship policies and culture       | 66   |
| 3.1.4     | E-participation                               | 18   | 2.1.4      | PISA scales in reading, maths and science   | 68   |
| 4.3.3     | Domestic market scale, bn PPP\$               | 8    | 2.2.2      | Graduates in science and engineering, %     | 82   |
| 5.3.1     | Intellectual property payments, % total trade | 14   | 2.2.3      | Tertiary inbound mobility, %                | 105  |
| 5.3.2     | High-tech imports, % total trade              | 19   | 3.2.3      | Gross capital formation, % GDP              | 108  |
| 5.3.3     | ICT services imports, % total trade           | 25   | 4.1.3      | Loans from microfinance institutions, % GDP | 57   |
| 6.1.5     | Citable documents H-index                     | 23   | 4.3.1      | Applied tariff rate, weighted avg., %       | 107  |
| 7.1.1     | Intangible asset intensity, top 15, %         | 17   | 7.2.2      | National feature films/mn pop. 15–69        | 56   |
| 7.1.2     | Trademarks by origin/bn PPP\$ GDP             | 19   | 7.2.4      | Printing and other media, % manufacturing   | 83   |

## Brazil

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| Output rank | Input rank | Income       | Region | Population (mn) | GDP, PPP\$ (bn) | GDP per capita, PPP\$ |
|-------------|------------|--------------|--------|-----------------|-----------------|-----------------------|
| 53          | 58         | Upper middle | LCN    | 214.0           | 3,437.6         | 16,169                |

|                                                                                                                     | Score/Value | Rank    |                                                                                                                           | Score/Value                                          | Rank   |        |
|---------------------------------------------------------------------------------------------------------------------|-------------|---------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------|--------|
|  <b>Institutions</b>               | 46.7        | 102 ○   |  <b>Business sophistication</b>          | 37.9                                                 | 35 ◆   |        |
| <b>1.1 Political environment</b>                                                                                    | 52.8        | 91      | <b>5.1 Knowledge workers</b>                                                                                              | 45.9                                                 | [40]   |        |
| 1.1.1 Political and operational stability*                                                                          | 65.5        | 74      | 5.1.1 Knowledge-intensive employment, %                                                                                   | 24.5                                                 | 59     |        |
| 1.1.2 Government effectiveness*                                                                                     | 40.1        | 94      | 5.1.2 Firms offering formal training, %                                                                                   | n/a                                                  | n/a    |        |
| <b>1.2 Regulatory environment</b>                                                                                   | 63.2        | 70      | 5.1.3 GERD performed by business, % GDP                                                                                   | n/a                                                  | n/a    |        |
| 1.2.1 Regulatory quality*                                                                                           | 40.9        | 84      | 5.1.4 GERD financed by business, %                                                                                        | ⊙                                                    | 43.5   |        |
| 1.2.2 Rule of law*                                                                                                  | 41.5        | 71      | 5.1.5 Females employed w/advanced degrees, %                                                                              | 14.4                                                 | 53     |        |
| 1.2.3 Cost of redundancy dismissal                                                                                  | 15.4        | 62      | <b>5.2 Innovation linkages</b>                                                                                            | 24.7                                                 | 58     |        |
| <b>1.3 Business environment</b>                                                                                     | 24.1        | 121 ○ ◆ | 5.2.1 University-industry R&D collaboration†                                                                              | 40.4                                                 | 78     |        |
| 1.3.1 Policies for doing business†                                                                                  | 35.4        | 103 ○   | 5.2.2 State of cluster development and depth†                                                                             | 49.8                                                 | 51     |        |
| 1.3.2 Entrepreneurship policies and culture*                                                                        | 12.8        | 66 ○ ◆  | 5.2.3 GERD financed by abroad, % GDP                                                                                      | n/a                                                  | n/a    |        |
|                                                                                                                     |             |         | 5.2.4 Joint venture/strategic alliance deals/bn PPP\$ GDP                                                                 | 0.0                                                  | 86     |        |
|                                                                                                                     |             |         | 5.2.5 Patent families/bn PPP\$ GDP                                                                                        | 0.1                                                  | 53     |        |
|  <b>Human capital and research</b> | 36.2        | 50      | <b>5.3 Knowledge absorption</b>                                                                                           | 43.3                                                 | 30 ◆   |        |
| <b>2.1 Education</b>                                                                                                | 51.4        | 67      | 5.3.1 Intellectual property payments, % total trade                                                                       | 1.9                                                  | 14 ● ◆ |        |
| 2.1.1 Expenditure on education, % GDP                                                                               | ⊙           | 6.1     | 20 ●                                                                                                                      | 5.3.2 High-tech imports, % total trade               | 13.2   | 19 ●   |
| 2.1.2 Government funding/pupil, secondary, % GDP/cap                                                                | 21.4        | 43      | 5.3.3 ICT services imports, % total trade                                                                                 | 2.6                                                  | 25 ● ◆ |        |
| 2.1.3 School life expectancy, years                                                                                 | 15.6        | 44      | 5.3.4 FDI net inflows, % GDP                                                                                              | 3.5                                                  | 37     |        |
| 2.1.4 PISA scales in reading, maths and science                                                                     | 400.0       | 68 ○    | 5.3.5 Research talent, % in businesses                                                                                    | ⊙                                                    | 26.6   |        |
| 2.1.5 Pupil-teacher ratio, secondary                                                                                | 16.3        | 79      |                                                                                                                           |                                                      |        |        |
| <b>2.2 Tertiary education</b>                                                                                       | 22.2        | 86      |  <b>Knowledge and technology outputs</b> | 24.8                                                 | 55     |        |
| 2.2.1 Tertiary enrolment, % gross                                                                                   | 55.1        | 58      | <b>6.1 Knowledge creation</b>                                                                                             | 20.0                                                 | 48     |        |
| 2.2.2 Graduates in science and engineering, %                                                                       | ⊙           | 18.5    | 82 ○                                                                                                                      | 6.1.1 Patents by origin/bn PPP\$ GDP                 | 1.7    | 43     |
| 2.2.3 Tertiary inbound mobility, %                                                                                  | 0.2         | 105 ○ ◆ | 6.1.2 PCT patents by origin/bn PPP\$ GDP                                                                                  | 0.2                                                  | 54     |        |
| <b>2.3 Research and development (R&amp;D)</b>                                                                       | 35.0        | 33 ◆    | 6.1.3 Utility models by origin/bn PPP\$ GDP                                                                               | 0.8                                                  | 26     |        |
| 2.3.1 Researchers, FTE/mn pop.                                                                                      | ⊙           | 887.7   | 53                                                                                                                        | 6.1.4 Scientific and technical articles/bn PPP\$ GDP | 18.9   | 51     |
| 2.3.2 Gross expenditure on R&D, % GDP                                                                               | ⊙           | 1.2     | 34 ◆                                                                                                                      | 6.1.5 Citable documents H-index                      | 38.6   | 23 ● ◆ |
| 2.3.3 Global corporate R&D investors, top 3, mn USD                                                                 | 46.5        | 32 ◆    | <b>6.2 Knowledge impact</b>                                                                                               | 30.8                                                 | 54     |        |
| 2.3.4 QS university ranking, top 3*                                                                                 | 42.5        | 30 ◆    | 6.2.1 Labor productivity growth, %                                                                                        | 0.8                                                  | 66     |        |
|                                                                                                                     |             |         | 6.2.2 New businesses/th pop. 15-64                                                                                        | 2.7                                                  | 48     |        |
|                                                                                                                     |             |         | 6.2.3 Software spending, % GDP                                                                                            | 0.3                                                  | 40     |        |
|                                                                                                                     |             |         | 6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP                                                                          | 5.7                                                  | 50     |        |
|                                                                                                                     |             |         | 6.2.5 High-tech manufacturing, %                                                                                          | 37.5                                                 | 32 ◆   |        |
|  <b>Infrastructure</b>           | 43.9        | 65      | <b>6.3 Knowledge diffusion</b>                                                                                            | 23.7                                                 | 64     |        |
| <b>3.1 Information and communication technologies (ICTs)</b>                                                        | 80.4        | 45      | 6.3.1 Intellectual property receipts, % total trade                                                                       | 0.3                                                  | 36 ◆   |        |
| 3.1.1 ICT access*                                                                                                   | 81.4        | 81      | 6.3.2 Production and export complexity                                                                                    | 44.0                                                 | 53     |        |
| 3.1.2 ICT use*                                                                                                      | 62.9        | 63      | 6.3.3 High-tech exports, % total trade                                                                                    | 2.6                                                  | 53     |        |
| 3.1.3 Government's online service*                                                                                  | 87.1        | 20 ● ◆  | 6.3.4 ICT services exports, % total trade                                                                                 | 1.1                                                  | 85     |        |
| 3.1.4 E-participation*                                                                                              | 90.5        | 18 ● ◆  |                                                                                                                           |                                                      |        |        |
| <b>3.2 General infrastructure</b>                                                                                   | 26.0        | 75      |  <b>Creative outputs</b>               | 24.5                                                 | 51     |        |
| 3.2.1 Electricity output, GWh/mn pop.                                                                               | 2,922.5     | 64      | <b>7.1 Intangible assets</b>                                                                                              | 41.8                                                 | 33     |        |
| 3.2.2 Logistics performance*                                                                                        | 43.7        | 55      | 7.1.1 Intangible asset intensity, top 15, %                                                                               | 72.1                                                 | 17 ●   |        |
| 3.2.3 Gross capital formation, % GDP                                                                                | 17.3        | 108 ○   | 7.1.2 Trademarks by origin/bn PPP\$ GDP                                                                                   | 82.7                                                 | 19 ●   |        |
| <b>3.3 Ecological sustainability</b>                                                                                | 25.3        | 71      | 7.1.3 Global brand value, top 5,000, % GDP                                                                                | 34.7                                                 | 41     |        |
| 3.3.1 GDP/unit of energy use                                                                                        | 10.2        | 67      | 7.1.4 Industrial designs by origin/bn PPP\$ GDP                                                                           | 1.4                                                  | 58     |        |
| 3.3.2 Environmental performance*                                                                                    | 43.6        | 60      | <b>7.2 Creative goods and services</b>                                                                                    | 6.8                                                  | 93     |        |
| 3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP                                                             | 1.0         | 69      | 7.2.1 Cultural and creative services exports, % total trade                                                               | 0.5                                                  | 51     |        |
|                                                                                                                     |             |         | 7.2.2 National feature films/mn pop. 15-69                                                                                | 1.1                                                  | 56 ○   |        |
|                                                                                                                     |             |         | 7.2.3 Entertainment and media market/th pop. 15-69                                                                        | 6.0                                                  | 44     |        |
|                                                                                                                     |             |         | 7.2.4 Printing and other media, % manufacturing                                                                           | 0.5                                                  | 83 ○   |        |
|                                                                                                                     |             |         | 7.2.5 Creative goods exports, % total trade                                                                               | 0.2                                                  | 83     |        |
|  <b>Market sophistication</b>    | 37.2        | 49      | <b>7.3 Online creativity</b>                                                                                              | 7.6                                                  | 51     |        |
| <b>4.1 Credit</b>                                                                                                   | 22.1        | 82      | 7.3.1 Generic top-level domains (TLDs)/th pop. 15-69                                                                      | 1.6                                                  | 85     |        |
| 4.1.1 Finance for startups and scaleups*                                                                            | 40.7        | 38      | 7.3.2 Country-code TLDs/th pop. 15-69                                                                                     | 8.9                                                  | 42     |        |
| 4.1.2 Domestic credit to private sector, % GDP                                                                      | 70.2        | 48      | 7.3.3 GitHub commit pushes received/mn pop. 15-69                                                                         | 8.3                                                  | 47     |        |
| 4.1.3 Loans from microfinance institutions, % GDP                                                                   | 0.0         | 57 ○    | 7.3.4 Mobile app creation/bn PPP\$ GDP                                                                                    | 11.5                                                 | 34     |        |
| <b>4.2 Investment</b>                                                                                               | 17.2        | 38      |                                                                                                                           |                                                      |        |        |
| 4.2.1 Market capitalization, % GDP                                                                                  | 59.8        | 32      |                                                                                                                           |                                                      |        |        |
| 4.2.2 Venture capital investors, deals/bn PPP\$ GDP                                                                 | 0.0         | 53      |                                                                                                                           |                                                      |        |        |
| 4.2.3 Venture capital recipients, deals/bn PPP\$ GDP                                                                | 0.0         | 44      |                                                                                                                           |                                                      |        |        |
| 4.2.4 Venture capital received, value, % GDP                                                                        | 0.0         | 22      |                                                                                                                           |                                                      |        |        |
| <b>4.3 Trade, diversification, and market scale</b>                                                                 | 72.4        | 18 ● ◆  |                                                                                                                           |                                                      |        |        |
| 4.3.1 Applied tariff rate, weighted avg., %                                                                         | 8.4         | 107 ○ ◆ |                                                                                                                           |                                                      |        |        |
| 4.3.2 Domestic industry diversification                                                                             | 94.2        | 27      |                                                                                                                           |                                                      |        |        |
| 4.3.3 Domestic market scale, bn PPP\$                                                                               | 3,437.6     | 8 ● ◆   |                                                                                                                           |                                                      |        |        |

NOTES: ● indicates a strength; ○ a weakness; ◆ an income group strength; ◇ an income group weakness; \* an index; † a survey question. ⊙ indicates that the economy's data are older than the base year; see appendices for details, including the year of the data, at [https://www.wipo.int/global\\_innovation\\_index/en/2022](https://www.wipo.int/global_innovation_index/en/2022). Square brackets [ ] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.

## DATA AVAILABILITY

The following tables list indicators that are either missing or outdated for Brazil.

### Missing data for Brazil

| Code  | Indicator name                    | Economy year | Model year | Source                          |
|-------|-----------------------------------|--------------|------------|---------------------------------|
| 5.1.2 | Firms offering formal training, % | n/a          | 2019       | World Bank Enterprise Surveys   |
| 5.1.3 | GERD performed by business, % GDP | n/a          | 2020       | UNESCO Institute for Statistics |
| 5.2.3 | GERD financed by abroad, % GDP    | n/a          | 2019       | UNESCO Institute for Statistics |

### Outdated data for Brazil

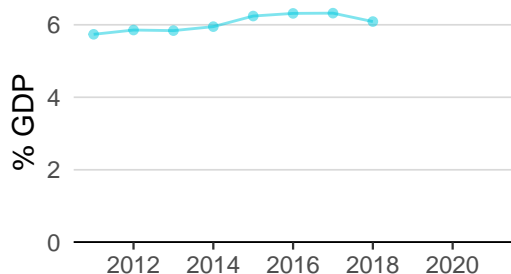
| Code  | Indicator name                          | Economy year | Model year | Source                          |
|-------|-----------------------------------------|--------------|------------|---------------------------------|
| 2.1.1 | Expenditure on education, % GDP         | 2018         | 2020       | UNESCO Institute for Statistics |
| 2.2.2 | Graduates in science and engineering, % | 2019         | 2020       | UNESCO Institute for Statistics |
| 2.3.1 | Researchers, FTE/mn pop.                | 2014         | 2020       | UNESCO Institute for Statistics |
| 2.3.2 | Gross expenditure on R&D, % GDP         | 2019         | 2020       | UNESCO Institute for Statistics |
| 5.1.4 | GERD financed by business, %            | 2018         | 2019       | UNESCO Institute for Statistics |
| 5.3.5 | Research talent, % in businesses        | 2014         | 2020       | UNESCO Institute for Statistics |



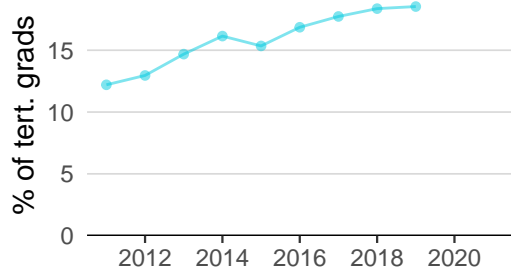
## BRAZIL'S INNOVATION SYSTEM

As far as practicable, the plots below present unscaled indicator data.

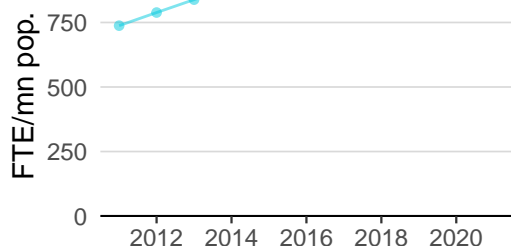
### Innovation inputs



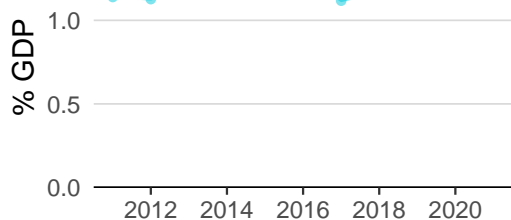
**2.1.1 Expenditure on education** was equal to 6.1% GDP in 2018—down by 4 percentage points from the year prior—and equivalent to an indicator rank of 20.



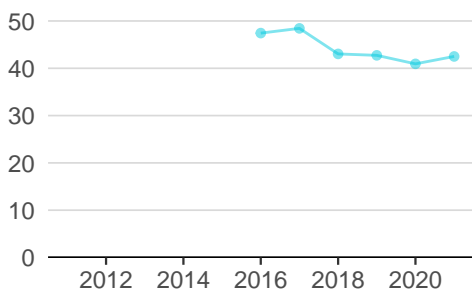
**2.2.2 Graduates in science and engineering** was equal to 18.5% of tert. grads in 2019—up by 1 percentage point from the year prior—and equivalent to an indicator rank of 82.



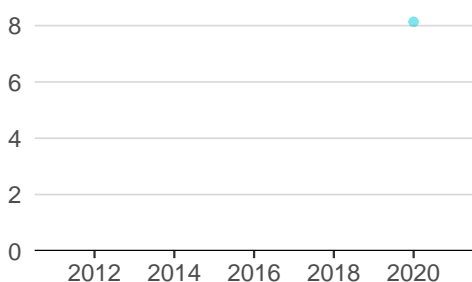
**2.3.1 Researchers** was equal to 887.7 FTE/mn pop. in 2014—up by 6 percentage points from the year prior—and equivalent to an indicator rank of 53.



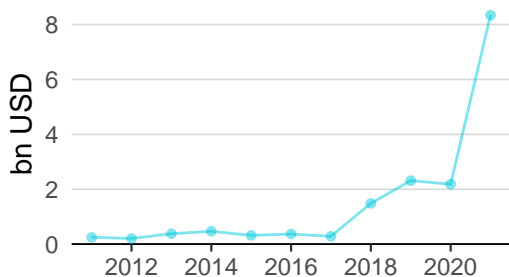
**2.3.2 Gross expenditure on R&D** was equal to 1.2% GDP in 2019—up by 3 percentage points from the year prior—and equivalent to an indicator rank of 34.



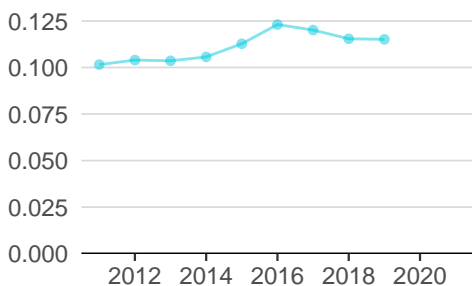
**2.3.4 QS university ranking** was equal to 42.5 in 2021—up by 4 percentage points from the year prior—and equivalent to an indicator rank of 30.



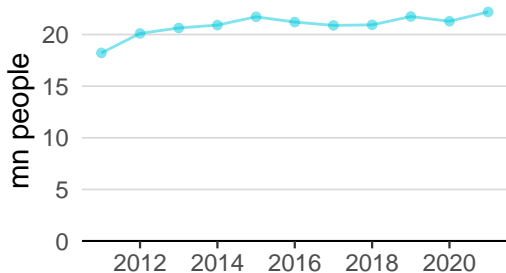
**3.1.1 ICT access** was equal to 8.1 in 2020 and equivalent to an indicator rank of 81.



**4.2.4 Venture capital received** was equal to 8.3 bn USD in 2021—up by 281 percentage points from the year prior—and equivalent to an indicator rank of 22.

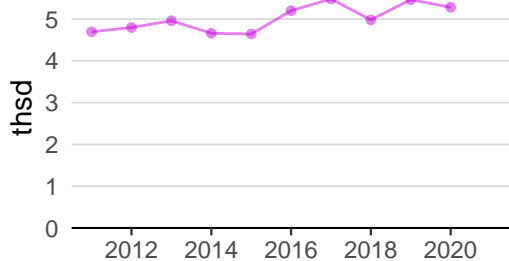


**4.3.2 Domestic industry diversification** was equal to 0.1 in 2019—effectively unchanged from the year prior—and equivalent to an indicator rank of 27.

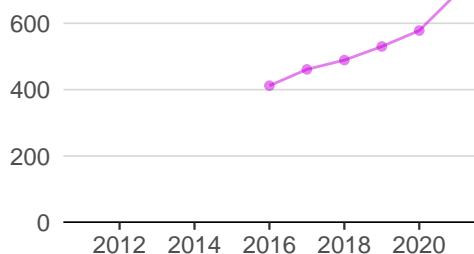


**5.1.1 Knowledge-intensive employment** was equal to 22.2 mn people in 2021—up by 4 percentage points from the year prior—and equivalent to an indicator rank of 59.

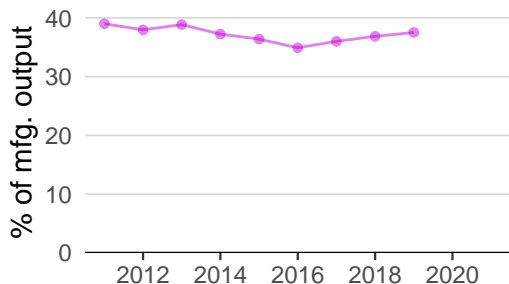
## Innovation outputs



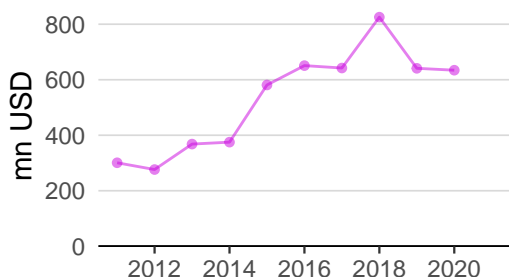
**6.1.1 Patents by origin** was equal to 5.3 thsd in 2020—down by 3 percentage points from the year prior—and equivalent to an indicator rank of 43.



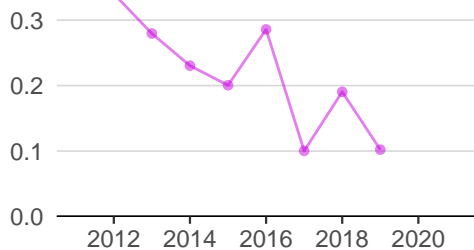
**6.1.5 Citable documents H-index** was equal to 690.0 in 2021—up by 19 percentage points from the year prior—and equivalent to an indicator rank of 23.



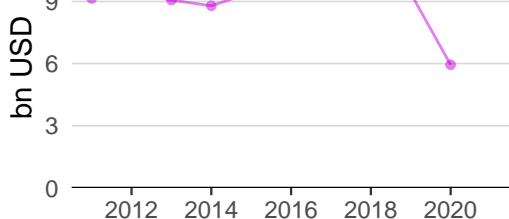
**6.2.5 High-tech manufacturing** was equal to 37.5% of mfg. output in 2019—up by 2 percentage points from the year prior—and equivalent to an indicator rank of 32.



**6.3.1 Intellectual property receipts** was equal to 634.3 mn USD in 2020—down by 1 percentage point from the year prior—and equivalent to an indicator rank of 36.



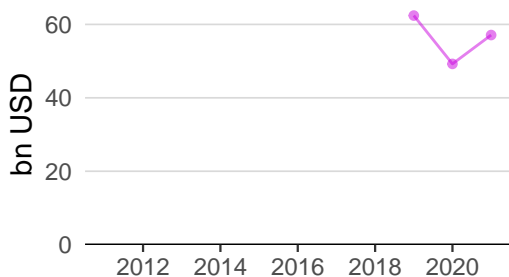
**6.3.2 Production and export complexity** was equal to 0.1 in 2019—down by 46 percentage points from the year prior—and equivalent to an indicator rank of 53.



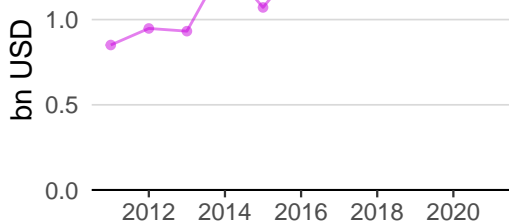
**6.3.3 High-tech exports** was equal to 5.9 bn USD in 2020—down by 37 percentage points from the year prior—and equivalent to an indicator rank of 53.



**7.1.1 Intangible asset intensity** was equal to 72.1% of total value in 2021 and equivalent to an indicator rank of 17.



**7.1.3 Global brand value** was equal to 57.1 bn USD in 2021—up by 16 percentage points from the year prior—and equivalent to an indicator rank of 41.



**7.2.1 Cultural and creative services exports** was equal to 1.2 bn USD in 2020—down by 9 percentage points from the year prior—and equivalent to an indicator rank of 51.

## BRAZIL'S INNOVATION TOP PERFORMERS

### 2.3.3 Global corporate R&D investors

| Firm      | Industry               | R&D      | R&D Growth | R&D Intensity | Rank  |
|-----------|------------------------|----------|------------|---------------|-------|
|           |                        | [mn EUR] | [%]        | [%]           |       |
| PETROBRAS | Oil & Gas Producers    | 100      | -32.4      | 0.2           | 1,177 |
| EMBRAER   | Aerospace & Defence    | 90       | -59.9      | 2.9           | 1,286 |
| WEG       | Industrial Engineering | 74       | 38.3       | 2.7           | 1,485 |

Source: European Commission's Joint Research Centre (<https://iri.jrc.ec.europa.eu/scoreboard/2021-eu-industrial-rd-investment-scoreboard>).  
Note: European Commission's Joint Research Centre ranks the top 2,500 firms by R&D investment annually.

### 2.3.4 QS university ranking

| University                             | Score | Rank |
|----------------------------------------|-------|------|
| UNIVERSIDADE DE SÃO PAULO              | 55.9  | 121= |
| UNIVERSIDADE ESTADUAL DE CAMPINAS      | 41.3  | 219  |
| UNIVERSIDADE FEDERAL DO RIO DE JANEIRO | 30.3  | 369= |

Source: QS Quacquarelli Symonds Ltd (<https://www.topuniversities.com/university-rankings/world-university-rankings/2022>).  
Note: QS Quacquarelli Symonds Ltd annually assesses over 1,200 universities across the globe and scores them between [0,100]. Ranks can represent a single value "x", a tie "x=" or a range "x-y".

### 7.1.1 Intangible asset intensity, top 15

| Firm           | Rank |
|----------------|------|
| VALE           | 1    |
| WEG            | 2    |
| BANCO BRADESCO | 3    |

Source: Brand Finance (<https://brandirectory.com/reports/gift-2021>).  
Note: Brand Finance only provides within economy ranks.

### 7.1.3 Global brand value, top 5,000

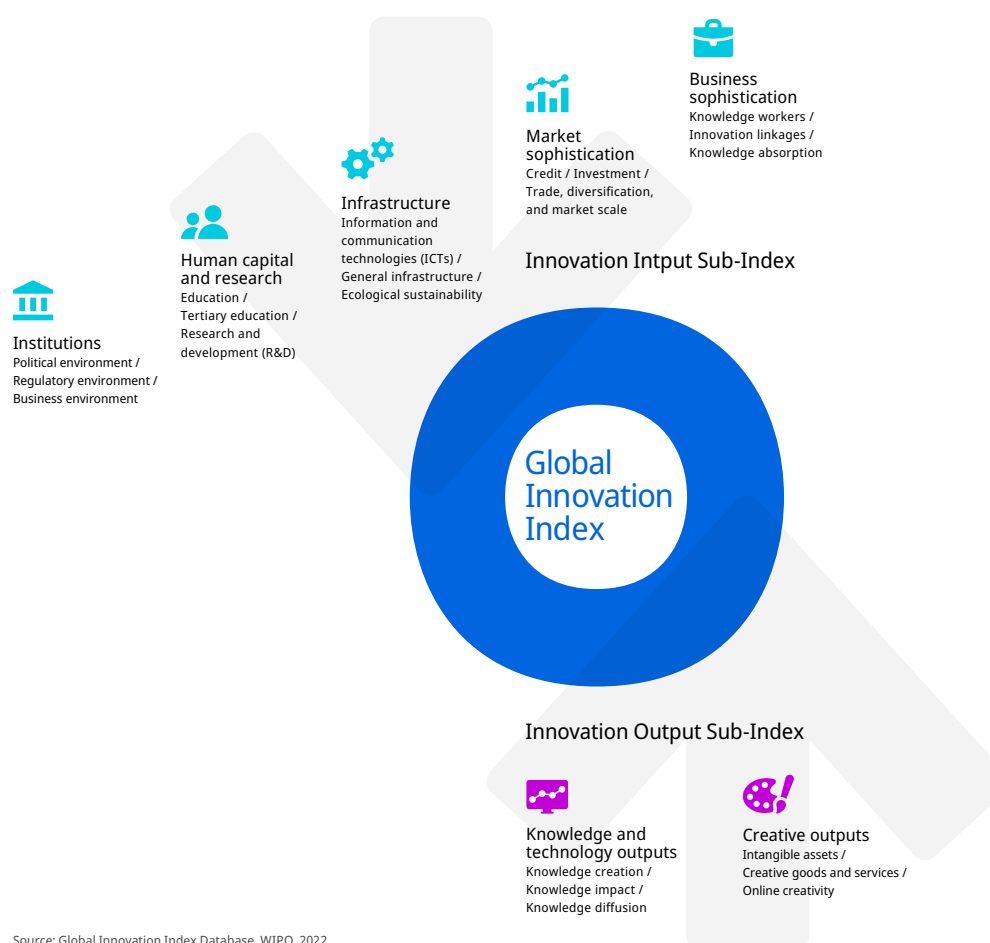
| Brand           | Industry | Rank |
|-----------------|----------|------|
| ITAÚ            | Banking  | 1    |
| BRADESCO        | Banking  | 2    |
| BANCO DO BRASIL | Banking  | 3    |

Source: Brand Finance (<https://brandirectory.com>).  
Note: Rank corresponds to within economy ranks.

## ABOUT THE GLOBAL INNOVATION INDEX

The Global Innovation Index (GII) is published by the World Intellectual Property Organization (WIPO), a specialized agency of the United Nations.

Recognizing that innovation is a key driver of economic development, the GII aims to provide an innovation ranking and rich analysis referencing around 130 economies. Over the last decade, the GII has established itself as both a leading reference on innovation and a “tool for action” for economies that incorporate the GII into their innovation agendas.



The Index is a ranking of the innovation capabilities and results of world economies. It measures innovation based on criteria that include institutions, human capital and research, infrastructure, credit, investment, linkages; the creation, absorption and diffusion of knowledge; and creative outputs.

The GII has two sub-indices: the Innovation Input Sub-Index and the Innovation Output Sub-Index, and seven pillars, each consisting of three sub-pillars.