### TUNISIA

<table>
<thead>
<tr>
<th>Output rank</th>
<th>Input rank</th>
<th>Income</th>
<th>Region</th>
<th>Population (mn)</th>
<th>GDP, PPP$</th>
<th>GDP per capita, PPP$</th>
<th>GII 2018 rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>74</td>
<td>Lower middle</td>
<td>NAWA</td>
<td>11.7</td>
<td>144.2</td>
<td>12,371.7</td>
<td>66</td>
</tr>
</tbody>
</table>

### INSTITUTIONS

#### 1. Political environment

- **1.1 Political and operational stability***
  - 51.6
- **1.2 Government effectiveness***
  - 58.0
- **1.3 Political stability and absence of violence***
  - 58.4

#### 2. Regulatory environment

- **2.1 Rule of law***
  - 59.4
- **2.2 Cost of running a business***
  - 216.0
- **2.3 Ease of starting a business***
  - 72.2

#### 3. Business environment

- **3.1 Ease of resiling insolvency***
  - 54.2

### HUMAN CAPITAL & RESEARCH

#### 2.1 Education

- **2.1.1 Expenditure on education, % GDP***
  - 66.9
- **2.1.2 Government funding/pupil, secondary, % GDP/cap***
  - 52.8
- **2.1.3 School life expectancy, years***
  - 15.1
- **2.1.4 PISA scales in reading, maths & science***
  - 37.1
- **2.1.5 Pupil-teacher ratio, secondary***
  - 13.6

#### 2.2 Tertiary education

- **2.2.1 Tertiary enrolment, % gross***
  - 32.1
- **2.2.2 Graduates in science & engineering, %***
  - 41.1
- **2.2.3 Tertiary incombl mobility, %***
  - 2.3

#### 2.3 Research & development (R&D)

- **2.3.1 Researchers, FTE/mn pop, %***
  - 1,965.0
- **2.3.2 Gross expenditure on R&D, % GDP***
  - 0.6
- **2.3.3 Global R&D companies, avg. exp. top 3, mn US$***
  - 0.0
- **2.3.4 QS university ranking, average score top 3***
  - 0.0

### INFRASTRUCTURE

#### 3.1 Information & communication technologies (ICTs)

- **3.1.1 ICT access***
  - 57.1
- **3.1.2 ICT use***
  - 44.0
- **3.1.3 Government's online service***
  - 80.6
- **3.1.4 E-participation***
  - 79.8

#### 3.2 General infrastructure

- **3.2.1 Electricity output, kWh/mn pop***
  - 1,775.4
- **3.2.2 Logistics performance***
  - 23.7
- **3.2.3 Gross capital formation, % GDP***
  - 23.1

#### 3.3 Ecological sustainability

- **3.3.1 GDP/unit of energy use***
  - 10.9
- **3.3.2 Environmental performance***
  - 62.4
- **3.3.3 ISO 14001 environmental certificates/bn PPP$ GDP***
  - 16.5

### MARKET SOPHISTICATION

#### 4. Credit

- **4.1 Credit***
  - 33.0
- **4.1.1 Ease of getting credit***
  - 50.0
- **4.1.2 Domestic credit to private sector, % GDP***
  - 86.2
- **4.1.3 Microfinance gross loans, % GDP***
  - 0.5

#### 4.2 Investment

- **4.2.1 Ease of protecting minority investors***
  - 56.7
- **4.2.2 Market capitalization, % GDP***
  - 21.0
- **4.2.3 Venture capital deals/bn PPP$ GDP***
  - 0.0

#### 4.3 Trade, competition, & market scale

- **4.3.1 Applied tariff rate, weighted avg, %***
  - 9.4
- **4.3.2 Intensity of local competition***
  - 50.0
- **4.3.3 Domestic market scale, bn PPP$***
  - 144.2

### BUSINESS SOPHISTICATION

#### 5.1 Knowledge workers

- **5.1.1 Knowledge-intensive employment, %***
  - 21.0
- **5.1.2 Firms offering formal training, % firms***
  - 28.9
- **5.1.3 GERD performed by business, % GDP***
  - 0.1
- **5.1.4 Finance by business, % GDP***
  - 18.9
- **5.1.5 Females employed in advanced degrees, %***
  - 6.7

#### 5.2 Innovation linkages

- **5.2.1 University-industry research collaboration***
  - 38.2
- **5.2.2 State of cluster development***
  - 37.0
- **5.2.3 GERD financed by abroad, %***
  - 3.9
- **5.2.4 JV-strategic alliance deals/bn PPP$ GDP***
  - 0.0
- **5.2.5 Patents families 2+ offices/bn PPP$ GDP***
  - 0.0

### KNOWLEDGE & TECHNOLOGY OUTPUTS...23.0 60

#### 6.1 Knowledge creation

- **6.1.1 Patents by origin/bn PPP$ GDP***
  - 1.2
- **6.1.2 PCT patents by origin/bn PPP$ GDP***
  - 0.0
- **6.1.3 Utility models by origin/bn PPP$ GDP***
  - n/a
- **6.1.4 Scientific & technical articles/bn PPP$ GDP***
  - 23.8
- **6.1.5 Citable documents H-index***
  - 9.6

#### 6.2 Knowledge impact

- **6.2.1 Growth rate of PPP$ GDP/worker***
  - 1.4
- **6.2.2 New businesses/th pop, mn 15-64***
  - 1.7
- **6.2.3 Computer software spending, % GDP***
  - 0.3
- **6.2.4 ISO 9001 quality certificates/bn PPP$ GDP***
  - 7.6
- **6.2.5 High- & medium-high-tech manufactures, % GDP***
  - 0.1

#### 6.3 Knowledge diffusion

- **6.3.1 Intellectual property receipts, % total trade***
  - 0.0
- **6.3.2 Creative goods & services***
  - 0.0
- **6.3.3 ICT services, % total trade***
  - 1.5
- **6.3.4 DFI net outflows, % GDP***
  - 0.3

### CREATIVE OUTPUTS...24.1 75

#### 7.1 Intangible assets

- **7.1.1 Trademarks by origin/bn PPP$ GDP***
  - n/a
- **7.1.2 Industrial designs by origin/bn PPP$ GDP***
  - 1.1
- **7.1.3 ICTs & business model creation***
  - 59.6
- **7.1.4 ICTs & organisational model creation***
  - 42.7

#### 7.2 Creative goods & services

- **7.2.1 Cultural & creative services exports, % total trade***
  - 0.0
- **7.2.2 National feature films/mn pop 15-69***
  - 1.4
- **7.2.3 Entertainment & Media market/th pop 15-69***
  - 0.9
- **7.2.4 Printing & other media, % manufacturing***
  - n/a
- **7.2.5 Creative goods exports, % total trade***
  - 2.0

#### 7.3 Online creativity

- **7.3.1 Generic top-level domains (TLDs)/th pop 15-69***
  - 2.7
- **7.3.2 Country-code TLDs/th pop 15-69***
  - 1.4
- **7.3.3 Wikipedia edits/mn pop 15-69***
  - 2.9
- **7.3.4 Mobile app creation/bn PPP$ GDP***
  - 0.2

### 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 Appendix II for details, including the year of the data, at http://globalinnovationindex.org. Square brackets ( ) indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.