WORLD COMPETITIVENESS RANKING 2019

All data are available from the World Competitiveness Online.

Visit our eShop
DENMARK

OVERALL PERFORMANCE  (63 countries)

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>6</td>
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</tr>
</tbody>
</table>

BASIC FACTS

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capital</td>
<td>Copenhagen</td>
</tr>
<tr>
<td>Land area (square km '000)</td>
<td>43</td>
</tr>
<tr>
<td>Exchange Rate (per $)</td>
<td>6.315</td>
</tr>
<tr>
<td>Population - market size (millions)</td>
<td>5.78</td>
</tr>
<tr>
<td>Gross Domestic Product (GDP) (US$ billions)</td>
<td>351.3</td>
</tr>
<tr>
<td>GDP (PPP) per capita (US$)</td>
<td>52,122</td>
</tr>
<tr>
<td>Real GDP growth (%)</td>
<td>1.4</td>
</tr>
<tr>
<td>Consumer price inflation (%)</td>
<td>0.71</td>
</tr>
<tr>
<td>Unemployment rate (%)</td>
<td>5.08</td>
</tr>
<tr>
<td>Labor force (millions)</td>
<td>2.94</td>
</tr>
<tr>
<td>Current account balance (% of GDP)</td>
<td>6.13</td>
</tr>
<tr>
<td>Direct investment stocks inward ($bn)</td>
<td>107.8</td>
</tr>
<tr>
<td>Direct investment flows inward (% of GDP)</td>
<td>1.53</td>
</tr>
</tbody>
</table>

CHALLENGES IN 2019

- Secure better access to skilled labor.
- Preserve positive attitudes to globalization and free trade. And embrace the business opportunities in SDG.
- Boost productivity, for example through increased investments in ICT-equipment, automation and digital skills.
- Reduce taxation on companies and labor to increase investments and productivity.
- Tighten the fiscal policy and focus public spending on education, R&D and infrastructure.

Provided by:
Confederation of Danish Industry

COMPETITIVENESS LANDSCAPE

PEER GROUPS RANKINGS

EUROPE - MIDDLE EAST - AFRICA (40 countries)

<table>
<thead>
<tr>
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<th>2018</th>
<th>2019</th>
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<td>3</td>
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</table>

POPULATIONS < 20 MILLION (34 countries)

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
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1
IMPROVEMENTS

<table>
<thead>
<tr>
<th>IMPROVEMENTS</th>
<th>WCY 2018</th>
<th>WCY 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1.18 Gross fixed capital formation - real growth</td>
<td>2.56</td>
<td>5.05</td>
</tr>
<tr>
<td>1.5.01 Consumer price inflation</td>
<td>1.15</td>
<td>0.71</td>
</tr>
<tr>
<td>2.2.12 Real personal taxes</td>
<td>3.70</td>
<td>4.39</td>
</tr>
<tr>
<td>2.4.17 Unemployment legislation</td>
<td>5.30</td>
<td>6.14</td>
</tr>
<tr>
<td>1.4.08 Long-term unemployment</td>
<td>1.30</td>
<td>1.10</td>
</tr>
<tr>
<td>1.4.09 Youth unemployment</td>
<td>11.02</td>
<td>9.37</td>
</tr>
<tr>
<td>1.4.07 Unemployment rate</td>
<td>5.88</td>
<td>5.08</td>
</tr>
<tr>
<td>1.2.12 Exports of commercial services ($bn)</td>
<td>58.41</td>
<td>64.60</td>
</tr>
<tr>
<td>4.3.18 Number of patents in force</td>
<td>724.5</td>
<td>792.9</td>
</tr>
<tr>
<td>1.1.09 Gross fixed capital formation (%)</td>
<td>20.3</td>
<td>22.2</td>
</tr>
<tr>
<td>2.3.12 Bureaucracy</td>
<td>6.11</td>
<td>6.67</td>
</tr>
<tr>
<td>1.1.19 Resilience of the economy</td>
<td>6.73</td>
<td>7.34</td>
</tr>
<tr>
<td>4.3.16 Patent applications per capita</td>
<td>205.48</td>
<td>223.71</td>
</tr>
<tr>
<td>3.2.18 Skilled labor</td>
<td>6.33</td>
<td>6.85</td>
</tr>
<tr>
<td>2.3.10 Adaptability of government policy</td>
<td>6.15</td>
<td>6.64</td>
</tr>
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</table>

DECLINES

<table>
<thead>
<tr>
<th>DECLINES</th>
<th>WCY 2018</th>
<th>WCY 2019</th>
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</thead>
<tbody>
<tr>
<td>2.3.08 Exchange rate stability</td>
<td>0.028</td>
<td>0.045</td>
</tr>
<tr>
<td>2.1.02 Government budget surplus/deficit (%)</td>
<td>1.00</td>
<td>0.51</td>
</tr>
<tr>
<td>1.1.15 Real GDP growth per capita</td>
<td>1.37</td>
<td>0.86</td>
</tr>
<tr>
<td>1.1.14 Real GDP growth</td>
<td>2.1</td>
<td>1.4</td>
</tr>
<tr>
<td>4.2.16 High-tech exports (%)</td>
<td>15.67</td>
<td>11.56</td>
</tr>
<tr>
<td>4.1.07 Population - growth</td>
<td>0.73</td>
<td>0.56</td>
</tr>
<tr>
<td>1.2.02 Current account balance</td>
<td>7.90</td>
<td>6.13</td>
</tr>
<tr>
<td>3.3.07 Regulatory compliance (banking laws)</td>
<td>8.70</td>
<td>7.17</td>
</tr>
<tr>
<td>3.3.10 Stock market capitalization (%)</td>
<td>126.53</td>
<td>105.71</td>
</tr>
<tr>
<td>1.5.02 Cost-of-living index</td>
<td>86.10</td>
<td>97.30</td>
</tr>
<tr>
<td>3.4.05 Corporate boards</td>
<td>7.67</td>
<td>6.74</td>
</tr>
<tr>
<td>1.5.06 Gasoline prices</td>
<td>1.69</td>
<td>1.87</td>
</tr>
<tr>
<td>1.2.18 Export concentration by product</td>
<td>30.9</td>
<td>34.1</td>
</tr>
<tr>
<td>3.2.01 Compensation levels</td>
<td>47.45</td>
<td>51.52</td>
</tr>
<tr>
<td>3.5.06 Digital transformation in companies</td>
<td>7.20</td>
<td>6.62</td>
</tr>
</tbody>
</table>

KEY ATTRACTIVENESS INDICATORS

From a list of 15 indicators, respondents of the Executive Opinion Survey were asked to select 5 that they perceived as the key attractiveness factors of their economy. The chart shows the percentage of responses per indicator from the highest number of responses to the lowest.
WORLD COMPETITIVENESS DIGITAL RANKING 2019

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OVERALL PERFORMANCE (63 countries)

- Overall
- Knowledge
- Technology
- Future readiness

OVERALL & FACTORS - 5 years

<table>
<thead>
<tr>
<th>Year</th>
<th>Overall</th>
<th>Knowledge</th>
<th>Technology</th>
<th>Future readiness</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>8</td>
<td>9</td>
<td>13</td>
<td>6</td>
</tr>
<tr>
<td>2016</td>
<td>8</td>
<td>8</td>
<td>12</td>
<td>6</td>
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<tr>
<td>2017</td>
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<td>8</td>
<td>10</td>
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</tr>
<tr>
<td>2018</td>
<td>4</td>
<td>8</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>2019</td>
<td>4</td>
<td>6</td>
<td>11</td>
<td>2</td>
</tr>
</tbody>
</table>

COMPETITIVENESS & DIGITAL RANKINGS

- Digital
- Competitiveness

N.B. This graph provides only a comparison of the country's performance in the two rankings.

PEER GROUPS RANKINGS

- EUROPE - MIDDLE EAST - AFRICA (40 countries)
- POPULATIONS < 20 MILLION (34 countries)
FACTORS BREAKDOWN - STRENGTHS AND WEAKNESSES

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KNOWLEDGE

Subfactors | 2015 | 2016 | 2017 | 2018 | 2019
--- | --- | --- | --- | --- | ---
Talent | 10 | 8 | 6 | 6 | 6
Training & education | 9 | 7 | 5 | 3 | 6
Scientific concentration | 16 | 18 | 19 | 14 | 17

Talent | Rank | Training & education | Rank
--- | --- | --- | ---
Educational assessment PISA - Math | 11 | Employee training | 2
International experience | 14 | Total public expenditure on education | 6
Foreign highly-skilled personnel | 20 | Higher education achievement | 23
Management of cities | 3 | Pupil-teacher ratio (tertiary education) | 4
Digital/Technological skills | 11 | Graduates in Sciences | 43
Net flow of international students | 6 | Women with degrees | 19

Scientific concentration | Rank
--- | ---
Total expenditure on R&D (%) | 8
Total R&D personnel per capita | 1
Female researchers | 38
R&D productivity by publication | 49
Scientific and technical employment | 21
High-tech patent grants | 39
Robots in Education and R&D | 25

TECHNOLOGY

Subfactors | 2015 | 2016 | 2017 | 2018 | 2019
--- | --- | --- | --- | --- | ---
Regulatory framework | 9 | 9 | 8 | 8 | 10
Capital | 23 | 26 | 25 | 22 | 27
Technological framework | 8 | 8 | 5 | 5 | 8

Regulatory framework | Rank | Capital | Rank | Technological framework | Rank
--- | --- | --- | --- | --- | ---
Starting a business | 24 | IT & media stock market capitalization | 45
Enforcing contracts | 13 | Funding for technological development | 9
Immigration laws | 42 | Banking and financial services | 13
Development and application of techn | 6 | Country credit rating | 1
Scientific research legislation | 6 | Venture capital | 9
Intellectual property rights | 4 | Investment in Telecommunications | 43

Capital | Rank
--- | ---
Communications technology | 6
Mobile Broadband subscribers | 13
Wireless broadband | 10
Internet users | 8
Internet bandwidth speed | 11
High-tech exports (%) | 33

FUTURE READINESS

Subfactors | 2015 | 2016 | 2017 | 2018 | 2019
--- | --- | --- | --- | --- | ---
Adaptive attitudes | 4 | 5 | 1 | 5 | 1
Business agility | 14 | 15 | 11 | 6 | 10
IT integration | 9 | 10 | 11 | 5 | 1

Adaptive attitudes | Rank | Business agility | Rank | IT integration | Rank
--- | --- | --- | --- | --- | ---
E-Participation | 1 | Opportunities and threats | 8
Internet retailing | 4 | World robots distribution | 30
Tablet possession | 9 | Agility of companies | 6
Smartphone possession | 7 | Use of big data and analytics | 17
Attitudes toward globalization | 9 | Knowledge transfer | 8

IT integration | Rank
--- | ---
E-Government | 1
Public-private partnerships | 6
Cyber security | 17
Software piracy | 8
WORLD TALENT RANKING 2018

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OVERALL PERFORMANCE (63 countries)

The direction of the triangle indicates the performance change from the last year:
△ improved or stable
▼ declined

Investment & Development
- Total public expenditure on education Percentage of GDP: 6.9 % (Value: 2018 Rank: 4)
- Government expenditure on education per studPercentage of GDP per capita (secondary education): 31.1 % (Value: 2018 Rank: 2)
- Pupil-teacher ratio (primary education) Ratio of students to teaching staff: 11.86 ratio (Value: 2018 Rank: 14)
- Pupil-teacher ratio (secondary education) Ratio of students to teaching staff: 12.10 ratio (Value: 2018 Rank: 28)
- Apprenticeships are sufficiently implemented 7.07 Survey [0..10] (Value: 2018 Rank: 4)
- Employee training is a high priority in companies 7.70 Survey [0..10] (Value: 2018 Rank: 1)
- Female labor force Percentage of total labor force: 47.76 % (Value: 2018 Rank: 11)
- Health infrastructure meets the needs of society 8.34 Survey [0..10] (Value: 2018 Rank: 7)

Appeal
- Cost-of-living index Index of a basket of goods & services in the main city, including housing (New York City = 100): 86.10 index (Value: 2018 Rank: 47)
- Attracting and retaining talents is a priority in companies 8.13 Survey [0..10] (Value: 2018 Rank: 1)
- Worker motivation in companies is high 8.25 Survey [0..10] (Value: 2018 Rank: 1)
- Brain drain (well-educated and skilled people) does not hinder competitiveness in your economy 7.32 Survey [0..10] (Value: 2018 Rank: 3)
- Quality of life is high 9.41 Survey [0..10] (Value: 2018 Rank: 5)
- Foreign highly-skilled personnel are attracted to your country’s business environment 6.21 Survey [0..10] (Value: 2018 Rank: 18)
- Remuneration in services professions Gross annual income including supplements such as bonuses, US$: 59,093 US$ (Value: 2018 Rank: 3)
- Effective personal income tax rate Percentage of an income equal to GDP per capita: 29.80 % (Value: 2018 Rank: 62)
- Personal security and private property rights are adequately protected 9.24 Survey [0..10] (Value: 2018 Rank: 2)

Readiness
- Labor force growth Percentage change: -0.95 % (Value: 2018 Rank: 60)
- Skilled labor is readily available 6.33 Survey [0..10] (Value: 2018 Rank: 13)
- Finance skills are readily available 7.66 Survey [0..10] (Value: 2018 Rank: 6)
- International experience of senior managers is generally significant 6.75 Survey [0..10] (Value: 2018 Rank: 9)
- Competent senior managers are readily available 6.88 Survey [0..10] (Value: 2018 Rank: 8)
- Educational system The educational system meets the needs of a competitive economy 8.24 Survey [0..10] (Value: 2018 Rank: 5)
- Science in schools is sufficiently emphasized 6.84 Survey [0..10] (Value: 2018 Rank: 8)
- University education meets the needs of a competitive economy 8.10 Survey [0..10] (Value: 2018 Rank: 7)
- Management education meets the needs of the business community 8.13 Survey [0..10] (Value: 2018 Rank: 2)
- Language skills are meeting the needs of enterprises 8.96 Survey [0..10] (Value: 2018 Rank: 2)
- Student mobility inbound Foreign tertiary-level students per 1000 inhabitants: 5.96 number (Value: 2018 Rank: 9)
- Educational assessment - PISA PISA survey of 15-year olds 507 Average (Value: 2018 Rank: 14)
IMD is ranked 1st in open programs worldwide - 8 years in a row. 
Financial Times 2012 - 2019

Developing leaders
Transforming organizations
Impacting your future

FURTHER INFORMATION
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