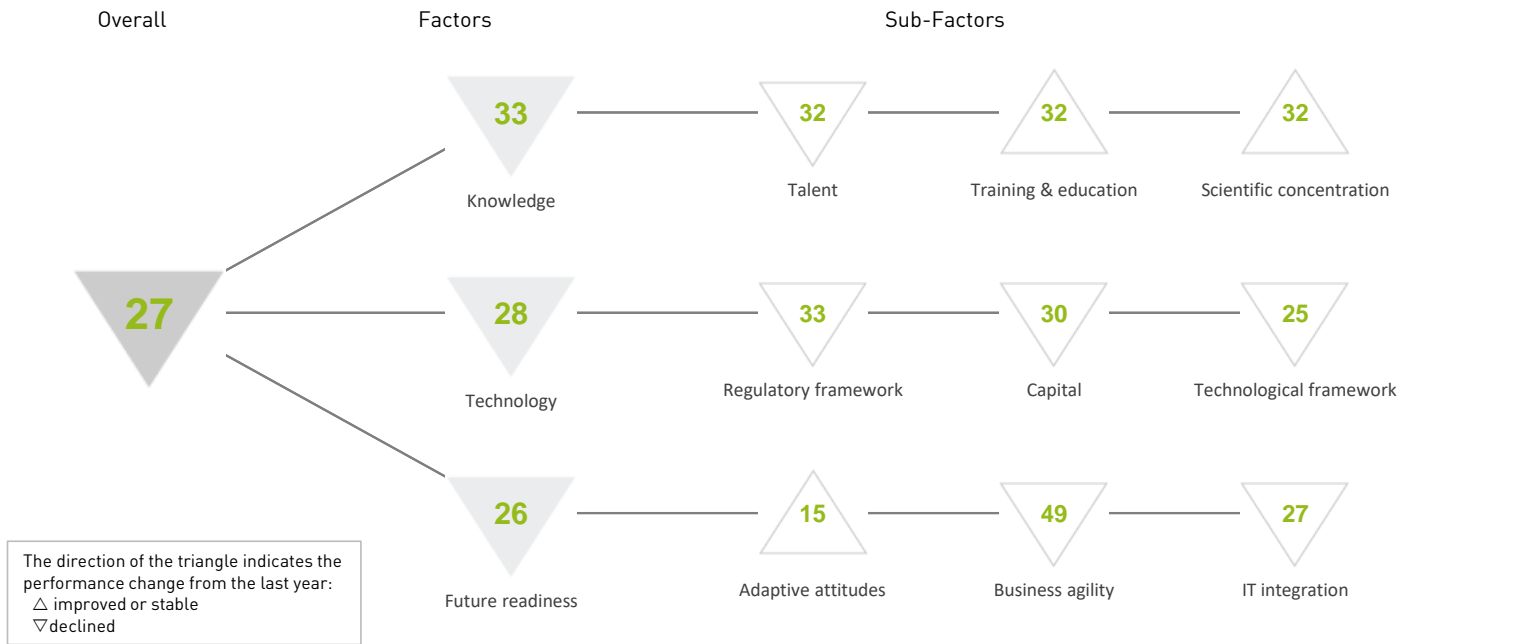


# NEW ZEALAND

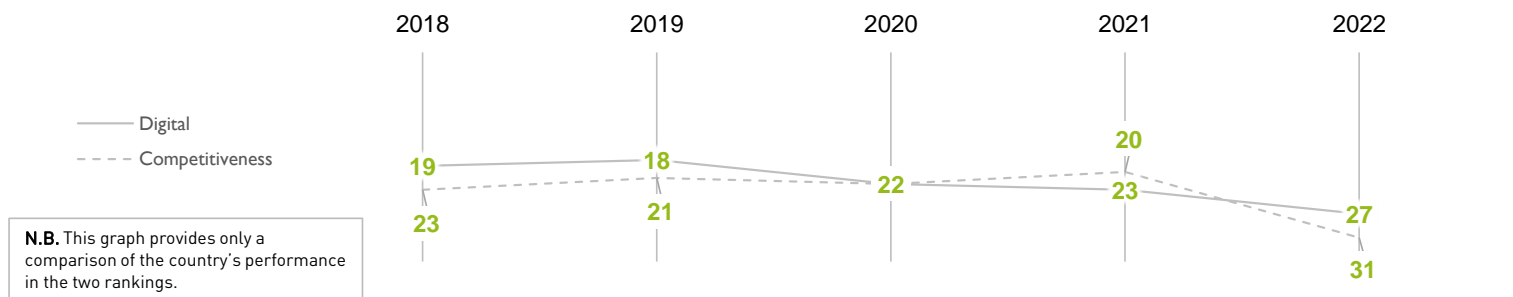
## OVERALL PERFORMANCE (63 countries)



## OVERALL & FACTORS - 5 years

|                  | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------|------|------|------|------|------|
| OVERALL          | 19   | 18   | 22   | 23   | 27   |
| Knowledge        | 21   | 21   | 28   | 28   | 33   |
| Technology       | 16   | 15   | 18   | 21   | 28   |
| Future readiness | 18   | 20   | 21   | 19   | 26   |

## COMPETITIVENESS & DIGITAL RANKINGS



## PEER GROUPS RANKINGS

### ASIA - PACIFIC (14 countries)



### POPULATIONS < 20 MILLION (36 countries)



## NEW ZEALAND

▶ Overall Top Strengths

▷ Overall Top Weaknesses

## KNOWLEDGE

| Sub-Factors              | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------|------|------|------|------|------|
| Talent                   | 16   | 11   | 17   | 14   | 32   |
| Training & education     | 37   | 34   | 37   | 36   | 32   |
| Scientific concentration | 15   | 26   | 34   | 33   | 32   |

| Talent                               | Rank | Training & education                     | Rank | Scientific concentration            | Rank |
|--------------------------------------|------|--|------|-------------------------------------|------|
| Educational assessment PISA - Math   | 26   | Employee training                        | 42   | Total expenditure on R&D (%)        | 30   |
| ▷ International experience           | 58   | Total public expenditure on education    | 13   | Total R&D personnel per capita      | 15   |
| Foreign highly-skilled personnel     | 28   | Higher education achievement             | 31   | Female researchers                  | -    |
| ▷ Management of cities               | 54   | Pupil-teacher ratio (tertiary education) | 35   | R&D productivity by publication     | 40   |
| Digital/Technological skills         | 51   | Graduates in Sciences                    | 36   | Scientific and technical employment | 12   |
| ▶ Net flow of international students | 03   | Women with degrees                       | 26   | High-tech patent grants             | 43   |
|                                      |      |  |      | Robots in Education and R&D         | 44   |

## TECHNOLOGY

| Sub-Factors             | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------|------|------|------|------|------|
| Regulatory framework    | 13   | 11   | 21   | 24   | 33   |
| Capital                 | 14   | 15   | 24   | 22   | 30   |
| Technological framework | 25   | 25   | 21   | 23   | 25   |

| Regulatory framework               | Rank | Capital                                | Rank | Technological framework      | Rank |
|------------------------------------|------|--|------|------------------------------|------|
| ▶ Starting a business              | 01   | IT & media stock market capitalization | 33   | Communications technology    | 31   |
| Enforcing contracts                | 19   | Funding for technological development  | 45   | Mobile Broadband subscribers | 44   |
| ▷ Immigration laws                 | 63   | Banking and financial services         | 30   | Wireless broadband           | 15   |
| Development & application of tech. | 37   | Country credit rating                  | 12   | Internet users               | 23   |
| Scientific research legislation    | 32   | Venture capital                        | 37   | Internet bandwidth speed     | 17   |
| Intellectual property rights       | 17   | Investment in Telecommunications       | 21   | High-tech exports (%)        | 41   |

## FUTURE READINESS

| Sub-Factors        | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------|------|------|------|------|------|
| Adaptive attitudes | 14   | 13   | 13   | 16   | 15   |
| Business agility   | 35   | 32   | 46   | 30   | 49   |
| IT integration     | 17   | 10   | 18   | 18   | 27   |

| Adaptive attitudes             | Rank | Business agility                | Rank | IT integration                     | Rank |
|--------------------------------|------|---------------------------------|------|------------------------------------|------|
| ▶ E-Participation              | 04   | Opportunities and threats       | 38   | ▶ E-Government                     | 08   |
| Internet retailing             | 19   | World robots distribution       | 41   | ▷ Public-private partnerships      | 54   |
| Tablet possession              | 14   | Agility of companies            | 48   | ▷ Cyber security                   | 52   |
| Smartphone possession          | 35   | Use of big data and analytics   | 39   | ▶ Software piracy                  | 02   |
| Attitudes toward globalization | 21   | Knowledge transfer              | 40   | Government cyber security capacity | 19   |
|                                |      | Entrepreneurial fear of failure | -    | Privacy protection by law content  | 39   |