



# LUXEMBOURG



Population: 605,764 | GDP: \$62.11 billion | Language(s): Luxembourgish, French, German | Unicorns 2009-2018: 1



## What did Luxembourg do right?

Luxembourg enjoys the highest internet bandwidth of all Scorecard countries and is highly diverse, with 45.3 percent of its population composed of immigrants. The country supports self-driving vehicle (SDV) research through its Digital Luxembourg innovation initiatives and is working with neighbors to establish an international test track for SDVs.



## What can Luxembourg do better?

Luxembourg could develop common-sense, drone-specific regulations for commercial and recreational drone use and roll back rules that effectively prohibit ridesharing. It could also reduce its 45.8 percent top individual marginal tax rate, which led to Luxembourg's D+ in Tax Friendliness.

## KEY TAKEAWAYS

With a total area of less than 1,000 square miles, the Grand Duchy of Luxembourg makes its Scorecard debut as an Innovation Champion, achieving top marks in all but a few categories.



Digital Luxembourg, a government-led, multi-sector innovation initiative,

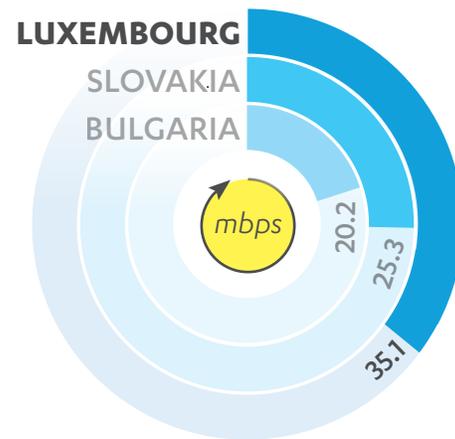
supports the country's diverse startup ecosystem and offers programs including free youth coding classes. At 63.2 percent, Luxembourg has the highest proportion of high-skilled workers of any country on the Scorecard. It is also home to one unicorn founded in the past decade: Global Fashion Group, an e-commerce startup that aims to bring online fashion to the world's fastest-growing markets.

Luxembourg also has by far the highest internet bandwidth of any country on the Scorecard. Ridesharing policy, however, is one of the country's weak spots: A 2016 law imposes restrictive rules, including a minimum trip time of one hour, which effectively ban ridesharing.

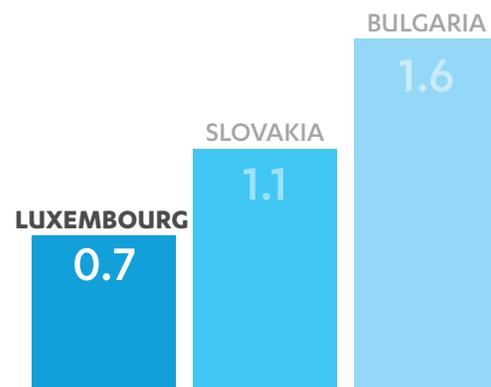
The future of self-driving vehicles (SDV) in Luxembourg looks bright, however. In September 2017, the country joined the Franco-German Initiative on Electric and Digital Mobility, and it is working to establish a multi-country test route for SDVs.

Sources: (Digital Luxembourg) (Luxembourg Times) (L'essentiel) (eeNews)

## Mean Download Speed (Fixed & Mobile)



## Fixed Broadband Cost Per Month



Shown as a percentage of gross monthly income per capita



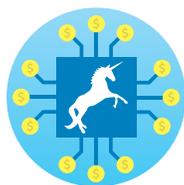
### Human Capital

63.2 percent of Luxembourg's workers are highly skilled, the highest share of any country on the Scorecard, and the country awarded 33.2 percent of its college degrees in STEM fields.



### Short-Term Rentals

Although current regulations are unclear as to whether hotel laws apply to short-term rentals, the country is working to update its laws to explicitly address the services.



### Unicorns

The country produced one unicorn between 2009 and 2018.



### Freedom

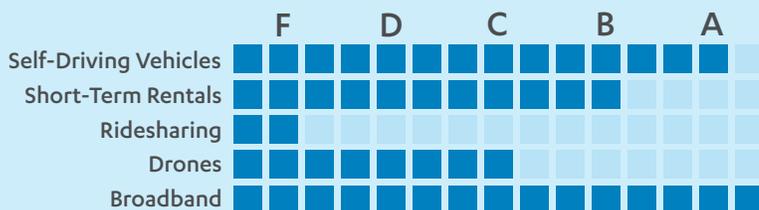
There are exceptionally high levels of both personal and political freedom



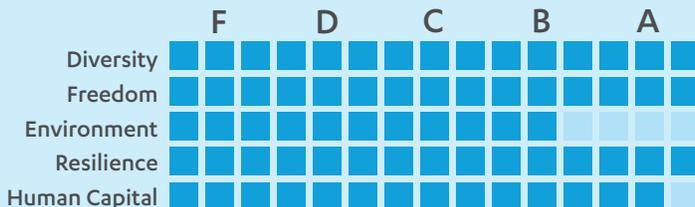
### Resilience

Luxembourg has a visible supply chain, low corruption and low political risk.

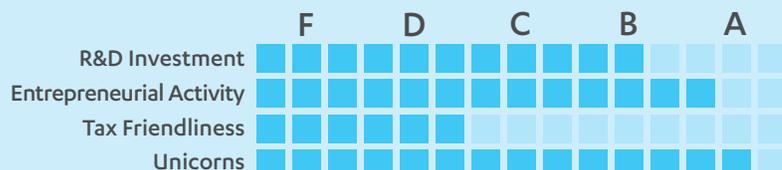
## Technology



## Society



## Economy



## ABOUT THE SCORECARD

With the 2019 International Innovation Scorecard, the Consumer Technology Association expands the report in breadth and depth, adding 23 new countries and two new categories. In this second edition, we evaluate 61 countries and the European Union across 28 indicators to determine whether they stifle progress or fuel the fires of innovation.

Each country on the Scorecard ranks in one of four tiers: Innovation Champions excel in almost all areas, followed by Innovation Leaders, which earn high scores in most. Behind the Leaders are Innovation Adopters, which promote innovation in some areas but not others. Finally, Modest Innovators may support innovation in one or more areas, but they show the greatest room for improvement.

## ABOUT CTA

The Consumer Technology Association (CTA)<sup>™</sup> is the preeminent trade organization representing the \$398 billion U.S. consumer technology industry, which supports more than 15 million jobs. CTA serves over 2,200 companies, ranging from the startups and small businesses that make up 80 percent of its membership to some of the world's best-known brands. CTA also owns and produces CES<sup>®</sup>, the world's premier gathering for consumer technology and the innovators who turn today's dreams into tomorrow's realities. Profits from CES are reinvested into CTA's industry services.

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