Our Purpose | Planet | Vodafone -
One of the world’s leading converged operators

**Mobile**
One of the world’s largest mobile networks
300m+ customers\(^1\)

**Fixed**
Our network reaches
28m customers\(^2\)

**TV**
Europe’s second largest TV platform
22m customers\(^2\)

\(^1\)Includes joint ventures and associates
\(^2\)Includes Vodafone Ziggo
Our purpose is to connect for a better future

• We are building digitally inclusive societies around the world, where everyone is able to access technology and its benefits. We are committed to sustainability – our business success should not come at the expense of the planet.

• But equally important to our purpose commitments is our determination to ensure we are acting responsibly and with integrity wherever we operate.

Vodafone

• Largest mobile & fixed network operator in Europe
• World’s largest internet of things (IoT) connectivity provider
• Services 1,400 global companies including 70% of the Fortune 500

Vodacom

• +185 m customers across Africa, including +51 m MPesa (all +18 years)
• Supporting staff, Governments, customers, & suppliers
• Supporting business, jobs, & economic resilience
• Private sector partners J&J, AZ, Pfizer, Sanofi, GSK, Imperial, DHL, & +1,000 more

Mezzanine

• Digital products in 11 Countries in complex, resource-limited settings.
• +62 m individuals impacted since 2012
• Network agnostic, ISO 27001 approved & GDPR compliant
• Existing partnerships with USAID, UN, etc.

M-Pesc

• M-PESA is Africa’s most successful mobile money service and the region’s largest Fin-tech platform
• M-PESA provides more than 51 million customers across seven countries in Africa with a safe, secure and affordable way to send and receive money, top-up airtime, make bill payments, receive salaries, get short-term loans and much more

IoT.next

• Scalable platform that allows integration with legacy systems and communication with many protocols. Solutions allow for the leveraging off existing infrastructure however simple customisation of full-stack product suite (operating in 13 verticals)
• Network agnostic

VodaFamily – How we operate
We’ve committed to reducing our total global carbon emissions to ‘net zero’ by 2040. Here’s how we’re going to do it…

<table>
<thead>
<tr>
<th>Year</th>
<th>European network powered by 100% renewable electricity</th>
<th>All network waste reused, sold, or recycled</th>
<th>Carbon emission eliminated from:</th>
<th>Carbon emissions halved from:</th>
<th>2030</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>100% of the electricity used by our networks from renewable sources</td>
<td>Carbon emission eliminated from:</td>
<td>Carbon emissions halved from:</td>
<td>Fully net zero</td>
<td></td>
</tr>
<tr>
<td>2021</td>
<td>Carbon emission eliminated from:</td>
<td>Carbon emissions halved from:</td>
<td></td>
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IoT Use Cases
### Smart Metering | Saving water together with the German energy company E.on

<table>
<thead>
<tr>
<th>The challenge</th>
<th>The solution</th>
<th>The benefits</th>
</tr>
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<tbody>
<tr>
<td>Only in Germany a water pipe bursts every 30 seconds; 1.1 million cases of water damage, amounting to costs of more than 3 billion euros hit the country in 2019 alone.</td>
<td>Smart water meters monitor and detect irregularities in water consumption, offering a reliable, early indicator of possible pipe damage. IoT enables all data and error messages to be transmitted to users via mobile communications.</td>
<td>By equipping water meters with intelligent wireless technology, water pipe damage can be detected much earlier, minimizing water waste as well as renovation work and costs.</td>
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## Smart Transportation | Reduce fuel consumption with intelligent fleet management

<table>
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<tr>
<td><strong>The economic and environmentally sustainable management of large vehicle fleets</strong> requires a data-driven approach.</td>
<td>Vodafone Business Fleet Analytics is a modular telematics product designed to gather vehicle operating data to maximise vehicle efficiency and, improve employee safety and security on the road. Vodafone Business Fleet Analytics can capture real-time data from drivers in a variety of vehicles, locations and driving conditions, analyse insight and better manage fleet usage. Our digitalised fleet management provides, real-time information on travel, speed and routes, available 24/7/365.</td>
<td>Including fuel efficiency savings, the average saving per installation of a VBFA device per vehicle per month (considering 20km per annum) is €139, of which €23 fuel, €38 productivity savings (e.g. route and job optimisation), €18 maintenance (e.g. prevention of recovery and emergency garage visit) and €60 safety (e.g. prevention of crash or management of crash).</td>
</tr>
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</table>
Video on MyFarmWeb | How technology can help the world navigate food insecurity
# Smart Farming | Optimizing agricultural yields with MyFarmWeb

## The challenge

Climate change – need for more sustainable and eco-friendly farming practices. Recent economic and geopolitical shocks are threatening our global food supply and pushing millions towards hunger.

## The solution

MyFarmWeb enables the farmer to measure, capture, record & monitor relevant data points in terms of the farmers interests or regulatory requirements from a productivity and/or sustainability perspective. The system interfaces with remote sensing (satellites) as well as in situ IoT devices (such as soil moisture probes, vehicle trackers and weather stations) to measure and record relevant data on the farm, ranging from soil, physical, chemical, microbial analysis, pest presence to ultimately enable informed decision making.

## The benefits

1) allowing farmers to participate in the value chain/giving access to market so that they are keen to invest; waste reduction gains

2) for consumers digitally, enabled traceability will give more transparency about products, and awareness about total footprint of products = behaviour change/demand driven transition.
Conclusion
Applications | Digital technologies can be an enabler and accelerator of the sustainable & safe future

- Fighting the energy crisis
- Enabling home office & schooling during the pandemic
- Optimizing transportation efficiency
- Ensuring food security
- Accelerating the green transition

Critical telecommunication infrastructure & digital solutions

Applications | Digital technologies can be an enabler and accelerator of the sustainable & safe future

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Critical telecommunication infrastructure & digital solutions
**Recommendations | Asks**

1. **Sustainable scale enabling investments into secure and resilient, transformational networks**

2. **Fair Internet ecosystem**

3. **Pro investment regulatory framework (spectrum, BCRD, etc)**

4. **Energy security - guaranteeing the uninterrupted supply of energy sources to all its network elements and limiting the negative effects of the serious increase in operating costs, starting with energy costs**

5. **Smart public funding to accelerate the green and digital transitions**

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