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Over 1/3

of the world's population have never used the internet

Why?

Lack of access to technology & education

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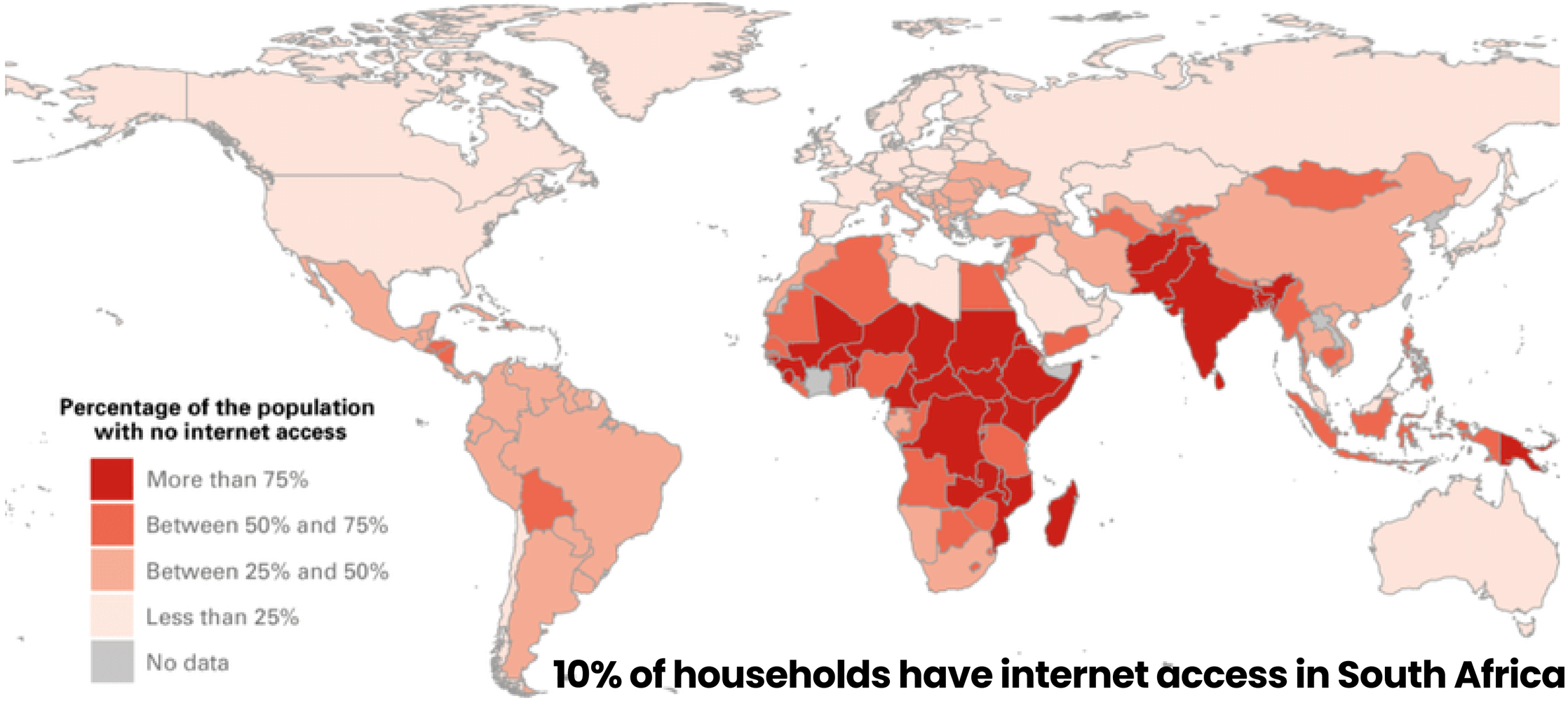
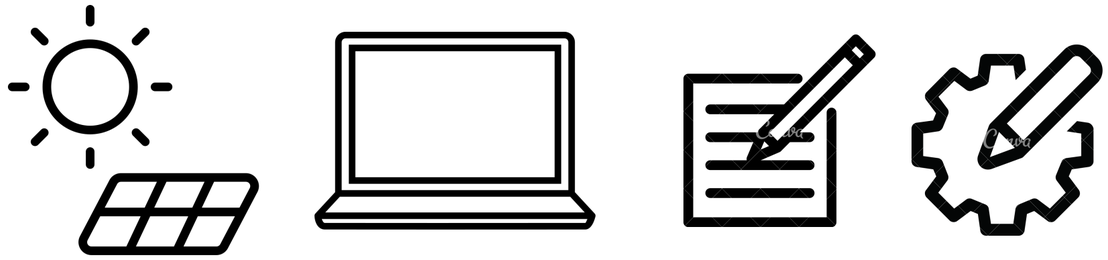


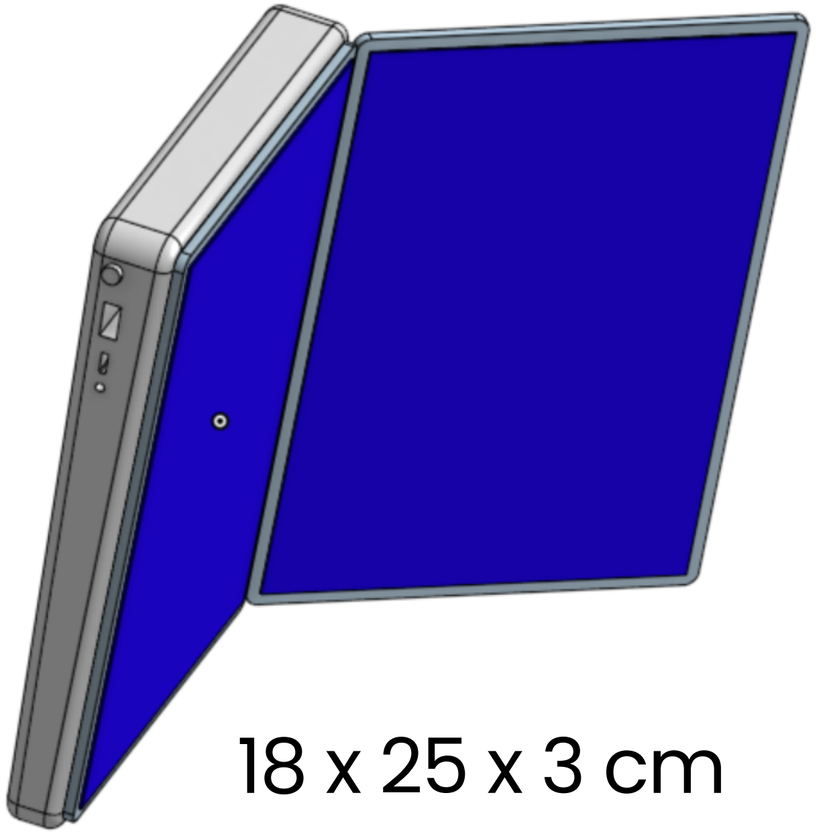
10% of households have internet access in South Africa(2021)

SolarTab

A customizable keyboard and notebook all in one



Solar-powered with a keyboard and SolarPen



18 x 25 x 3 cm

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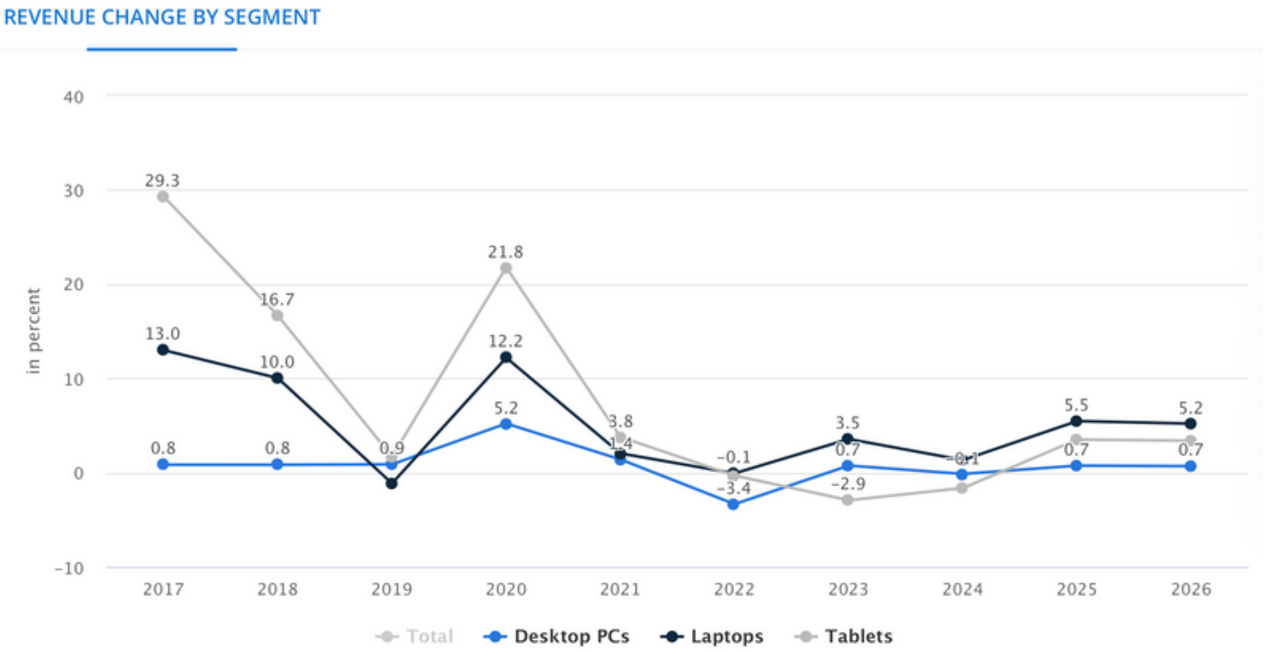
Qualitative Market Analysis

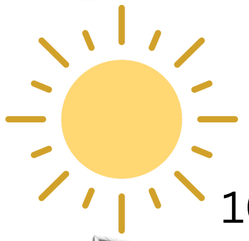
1. The community wants to improve and update their education
2. Note-taking and typing is a valuabe skill they aim to learn
3. A lack of devices that work without electricity
4. Preference for affordability and less maintanence

Market Potential

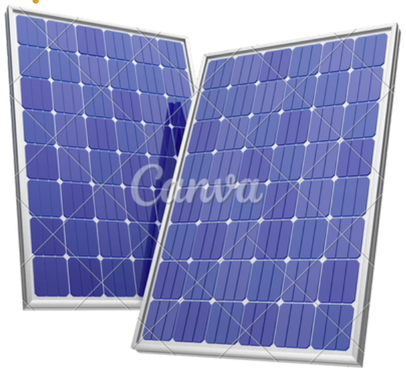
- The technology market is expected to grow 2.72% in SA (2023-2026)
- Estimated revenue(CAD) of $0.68 billion (tablets), $0.29 billion (desktop PCs), $1.10 billion (laptops)
- The tablet subsegment accounted for 35% of South Africa's technology segment (2022)



Components



10 W Solar Panels



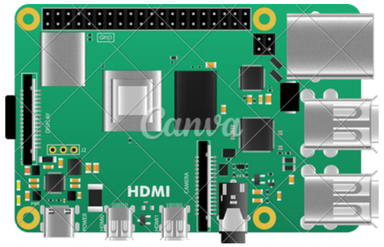
Heatsink

Charge controller

LiFePO4

Voltage step-up

Heatsink

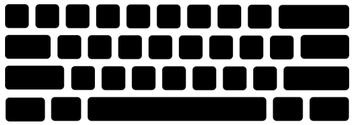


Raspberry Pi

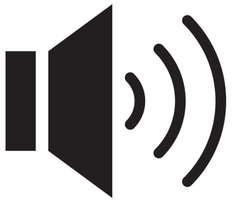
Fan

Heatsinks

Tablet



Keyboard



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The Raspberry Pi

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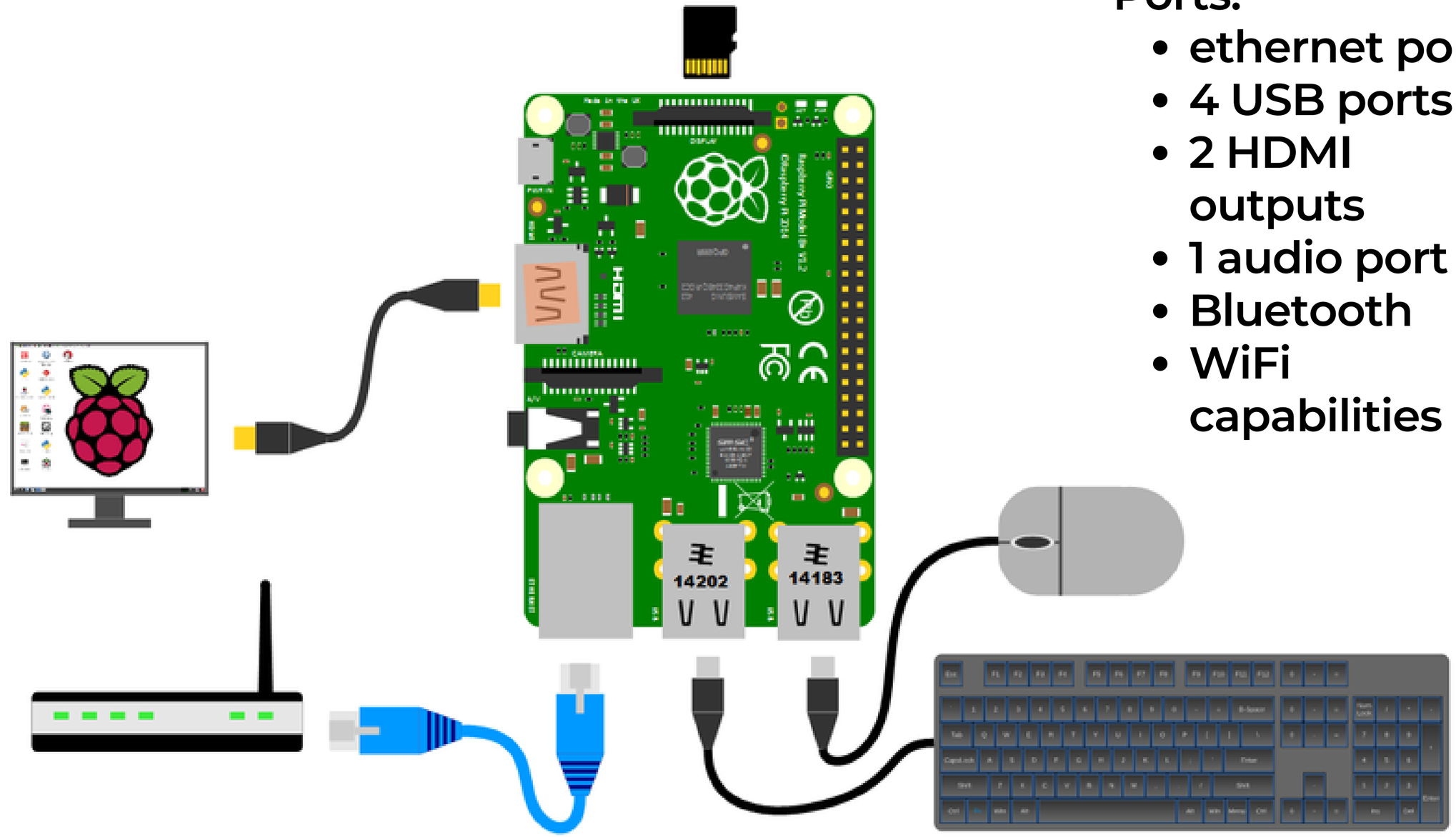


Ports:

- ethernet port,
- 4 USB ports
- 2 HDMI outputs
- 1 audio port
- Bluetooth
- WiFi capabilities

Features

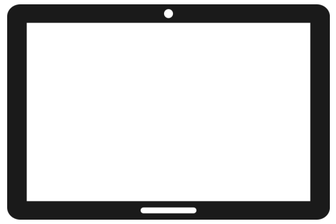
Only 1.5 - 2 hours of peak sunlight/day

Battery life of 4-7 hours

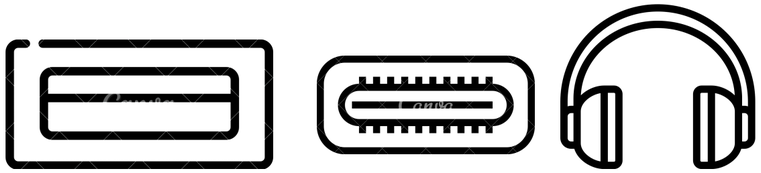
Customizable keyboard per region

Digital pen without charging

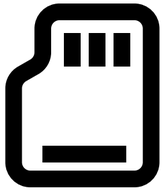
Durable material (Polycarbonate)



E-Paper:
Paper-like screen & works under extreme light conditions



Ports



1-8Gb RAM, 1.4GHz 64-bit quad-core ARM CPU

Functions like a computer with pre-downloaded modules

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Impact

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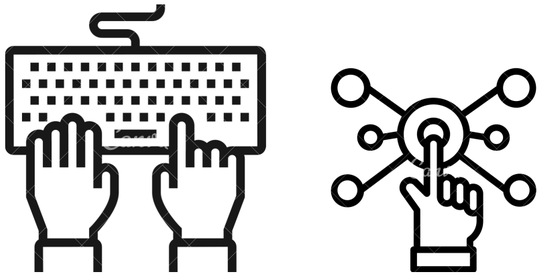
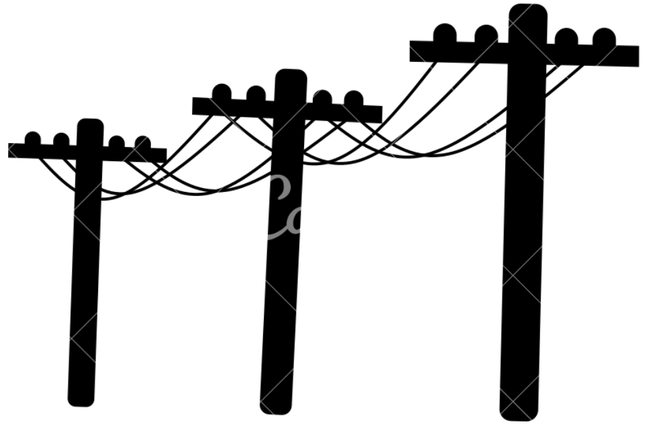
Preservation of culture and current curriculum

Autonomy of education still with school



Exposure to digital technology and typing and note-taking



Reaching areas with no power security

Competitive Analysis

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SolarTab v.s. Competitors

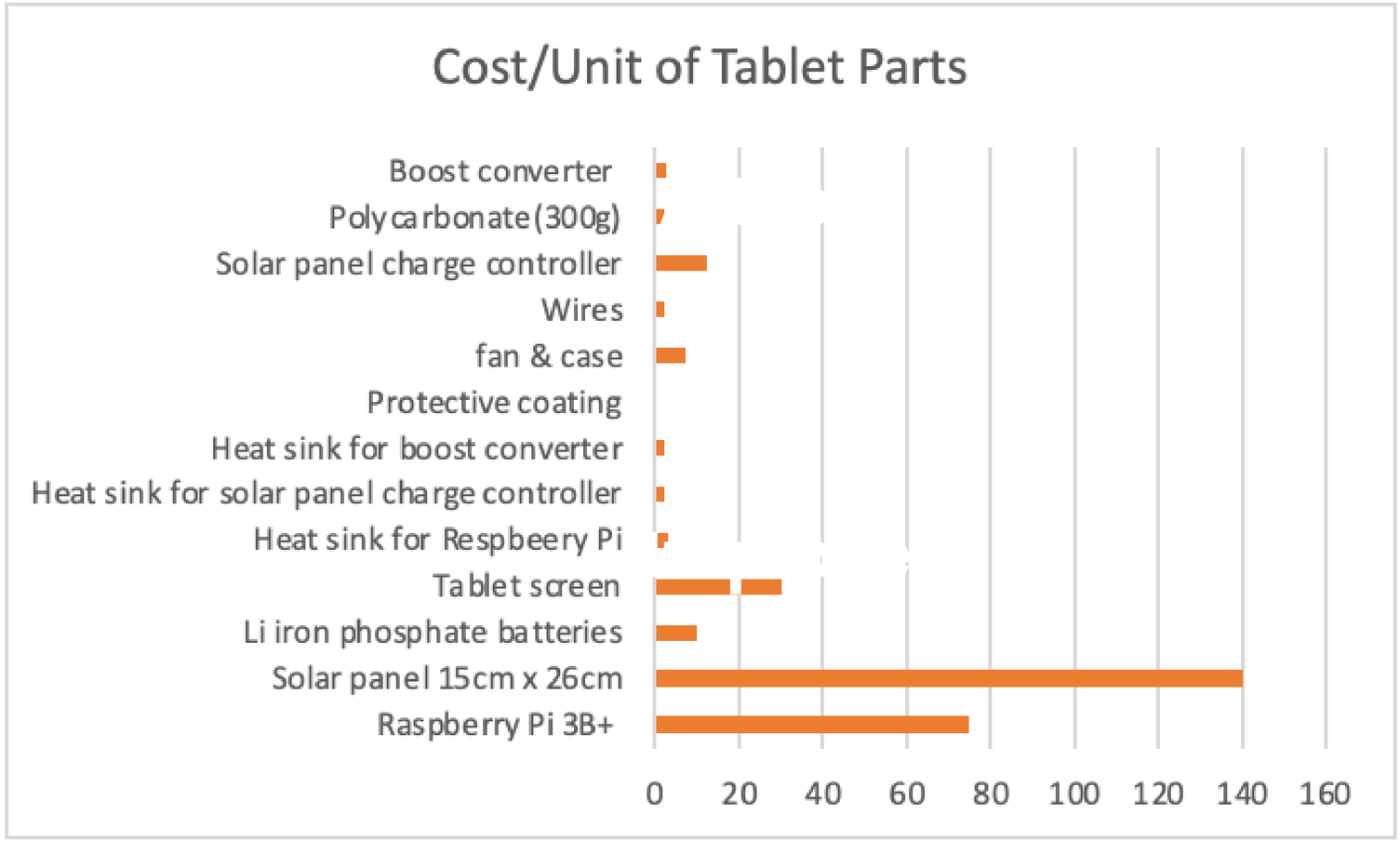
Advantages

- Customizable - designed in different languages
- Accessible - distributed to schools, no need for online purchase
- Easier to operate - incorporate audio instructions in their language
- Durable - Polycarbonate with heat dissipation security
- Poly-propylene protective coating for Lithium Iron Phosphate batteries to last ~ 5 years

Cost Analysis

Variable Cost - $302.2/Unit
Fixed Cost - $60000/year
Selling Price - $349.99

Contribution Margin / Unit - $47.79
Contribution Margin Ratio - 13.65%



*costs are in CAD

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THANK YOU