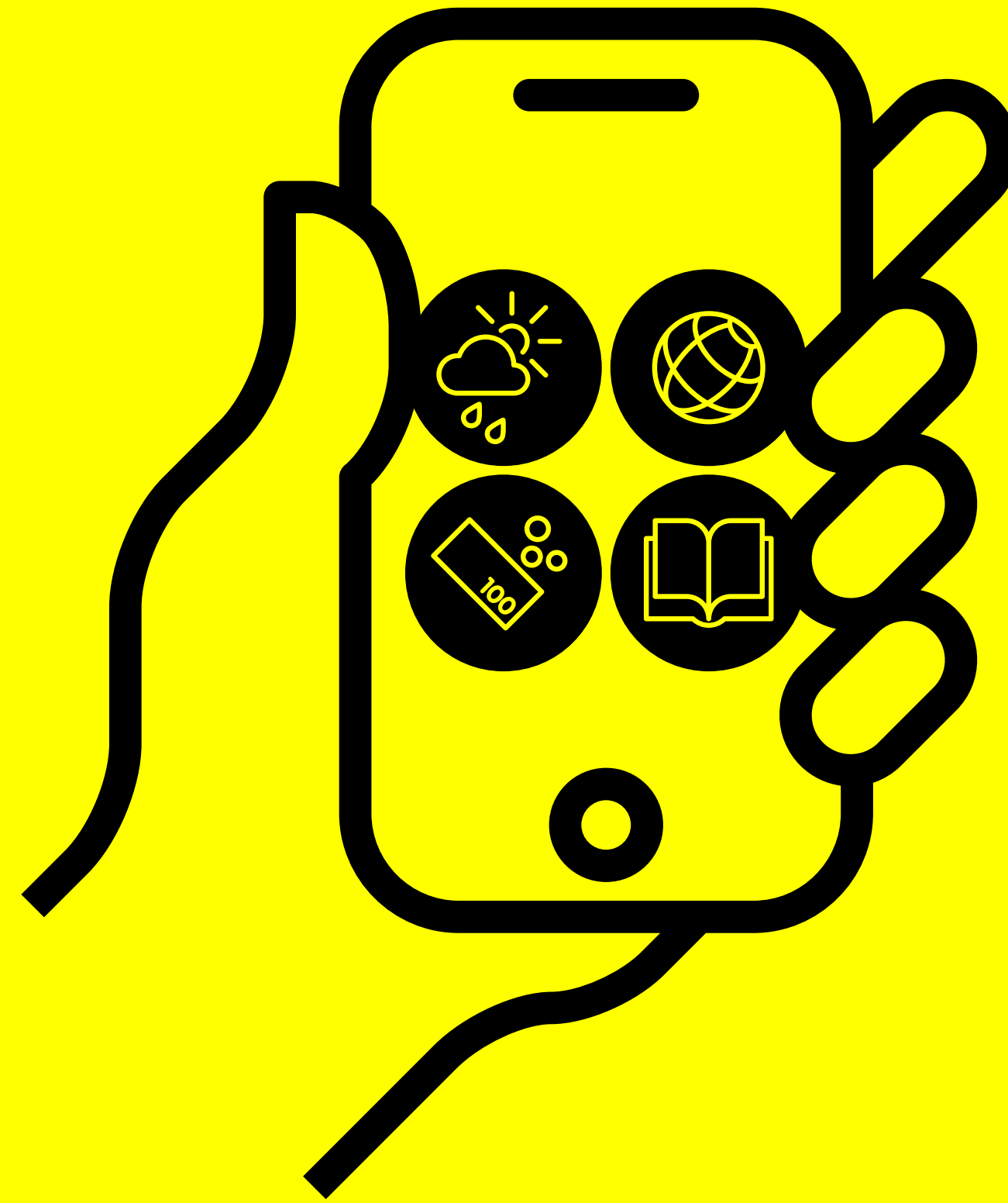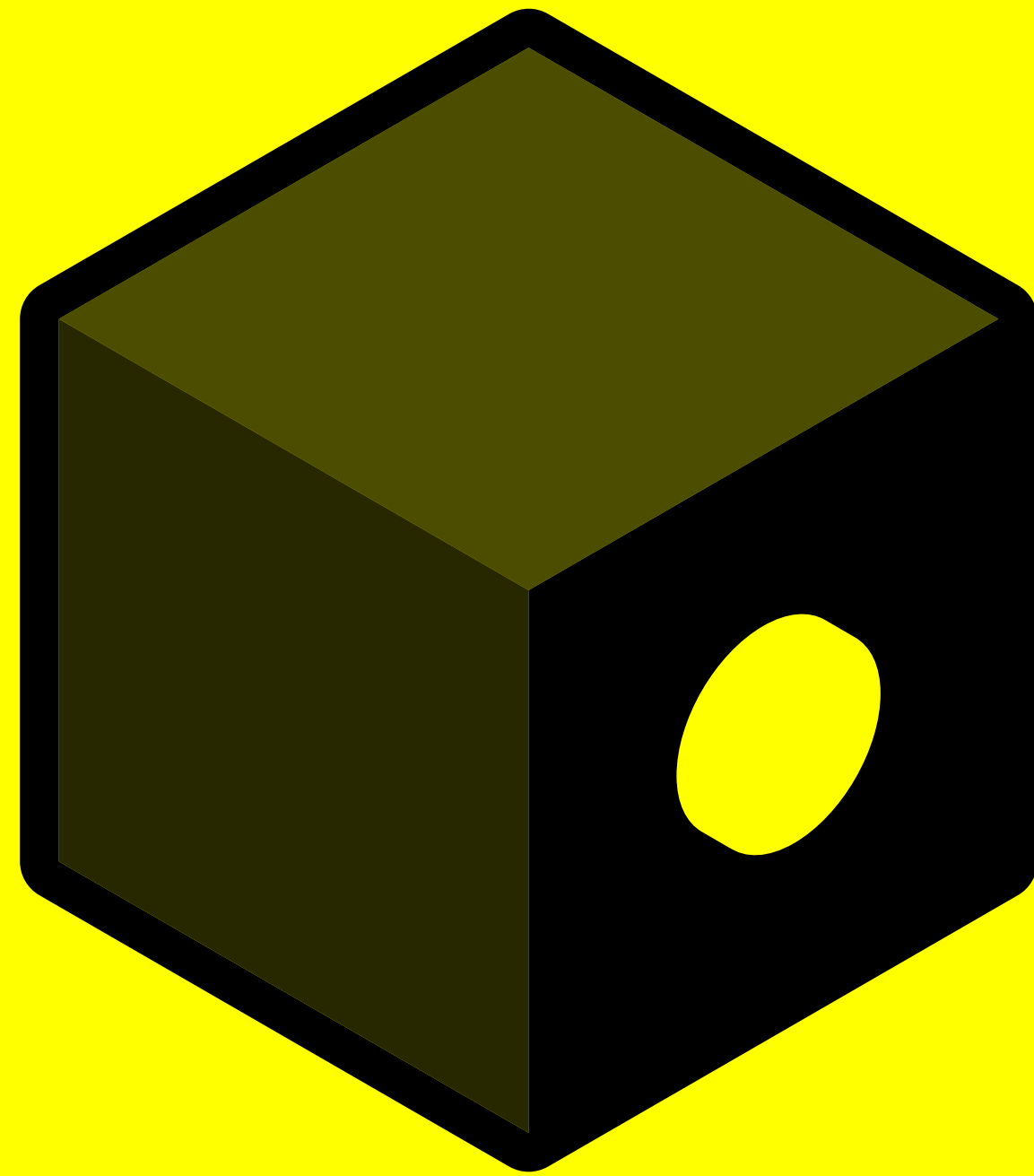mict

Offline content sharing
for rural Africa

POCKET PORTAL BY MICT

No affordable access to opportunities for young people, farmers and health workers who need learning material and vital information

+ 70% of population live in rural areas – mostly illiterate or low literate.

+ Education & training in person is expensive with travel expenses and loss of salary.

+ Meaningful Internet access via 3G/4G phone networks, when available, is too expensive.

POCKET
PORTAL

Data over the mobile networks is expensive, so offline data is booming but sharing is not easy

+ Downloading with mobile networks is not affordable: A doctor earns 500 USD monthly, a teacher 250 USD, a farmer 300 USD. Just 1 hour of video streaming is 10 USD.

+ People gather together to listen to music or watch videos pre-loaded on a device.

+ New cheap phones cost just < 40 USD, 2nd hand phones < 10 USD.

POCKET PORTAL

A platform for free, meaningful content

+ Pocket Portal is a bridge technology between today and when meaningful online access & usage is widely available (10+ years from now).

+ The little rugged device host a platform for information and education with simple communication tools for people with a smartphone.

+ User can easily stream or download hundreds of hours of educational videos, audio programs and messages on their smartphone or a tablet at no cost via an offline WiFi connection.

POCKET PORTAL

Like the online web, but offline & local with curated, educational content

+ The user experience is intuitive via a web-browser on their smart-phone and the best thing is: every download is free of charge.

+ The device can offer meaningful access to curated existing educational content or originally produced programs.

+ The low power hardware can be hosted by a school, a hospital or a shop and can run on solar power.

+ New content can be uploaded to the device by WiFi or USB (optional: 3G or Internet where available).

POCKET PORTAL

Access to content and sharing

+ Users can access the device within 300m of the Pocket Portal (longer range options available).

+ The content can be downloaded, saved then consumed anywhere, back at home or in the field.

+ Pocket Portals can be connected together to cover even larger areas (cities, refugee camps, etc) using mesh repeaters.

+ Users can (optionally) upload their own content from their phone and share to others via Pocket Portal.

+ Content can then be further shared from phone to phone via blue-tooth or WiFi Direct (peer-to-peer network) with tools provided.

POCKET
PORTAL

How we can work together

Option / **1**

You have already great digital content and you want to reach audiences with access to a smartphone (and cannot afford data).

→ **You can use the Pocket Portal device to offer you content.**
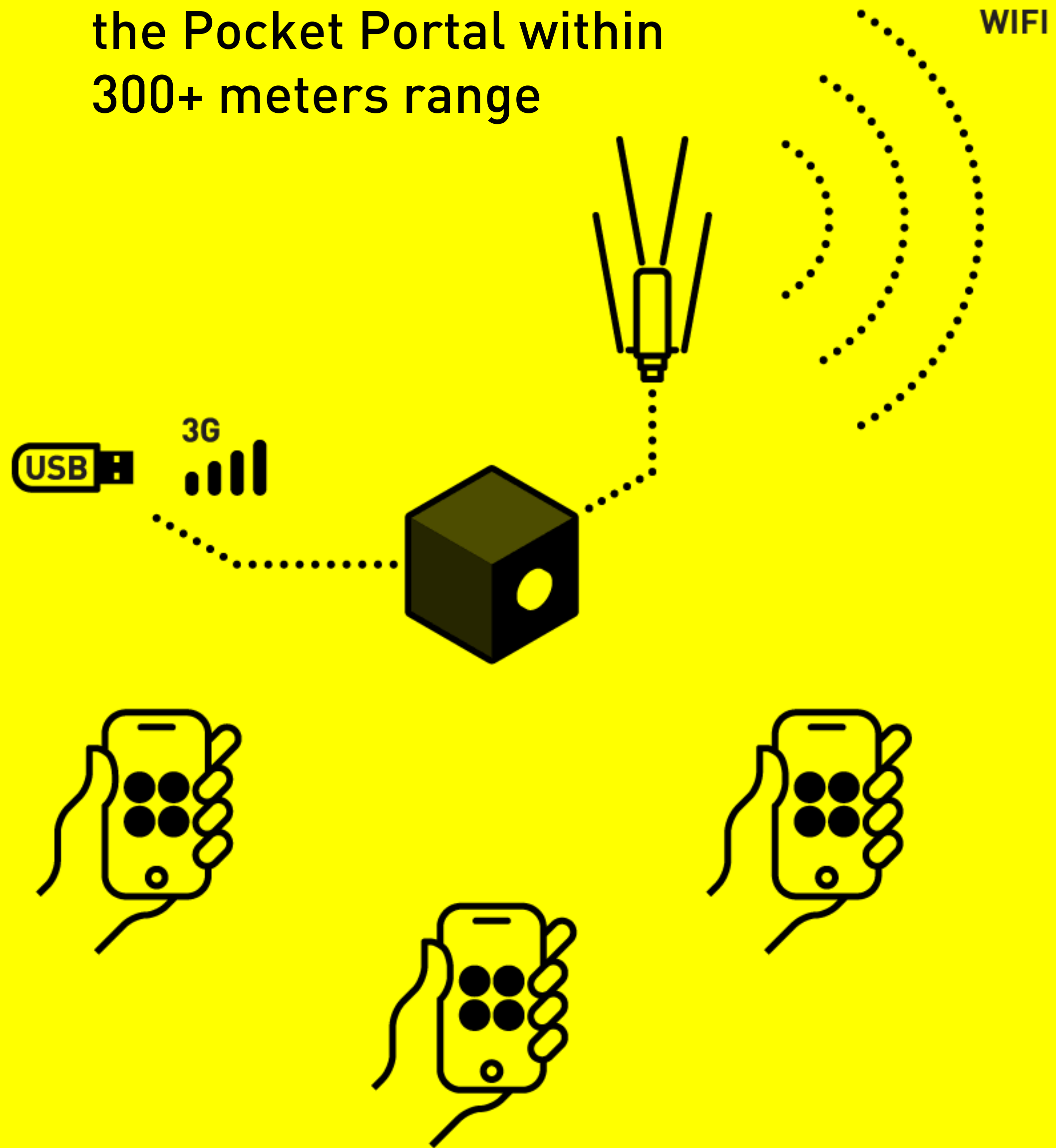
Option / **2**

You have great ideas but no content.

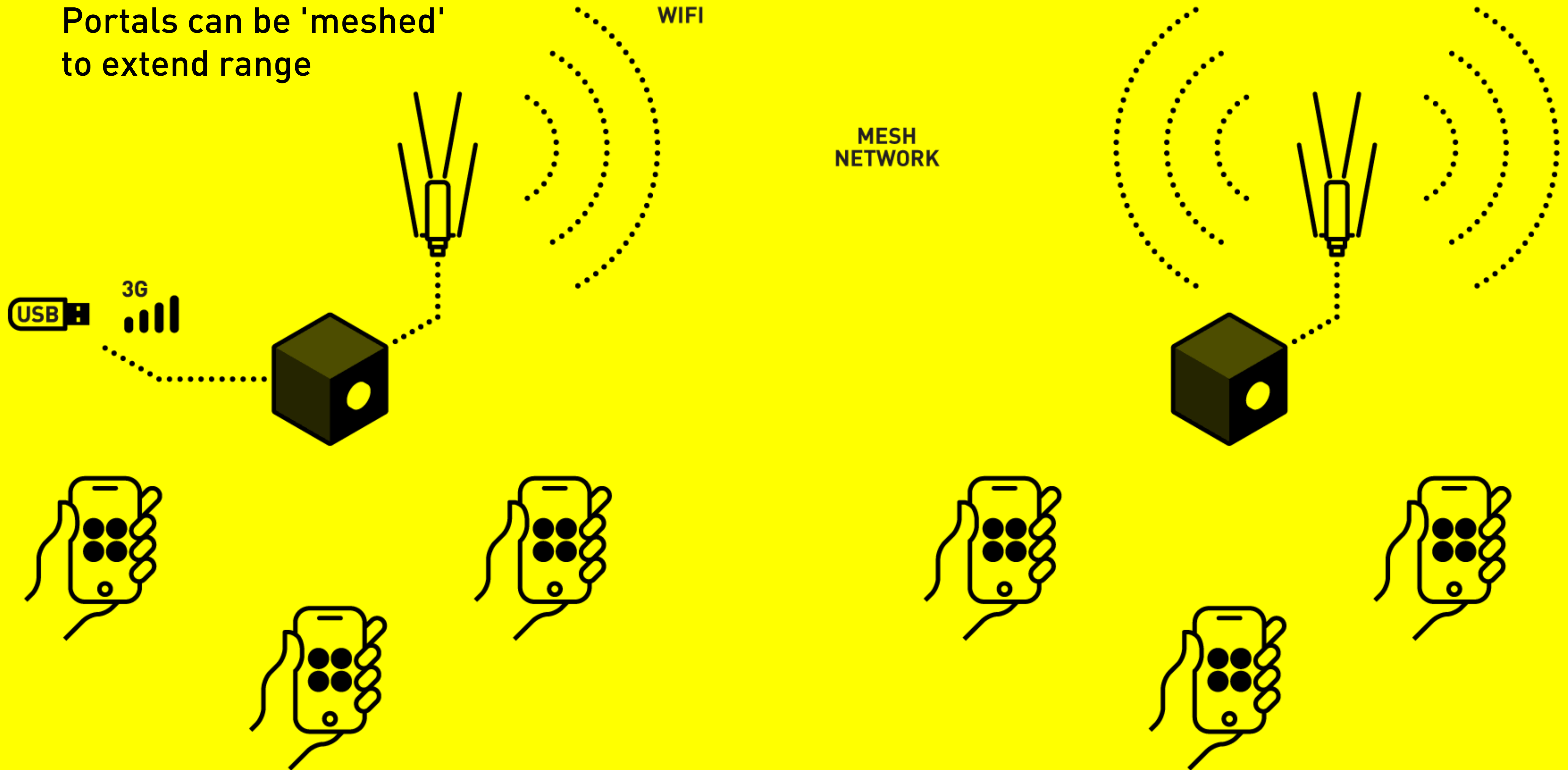→ **We can produce your content and run it on a Pocket Portal device (and on the internet as well).**
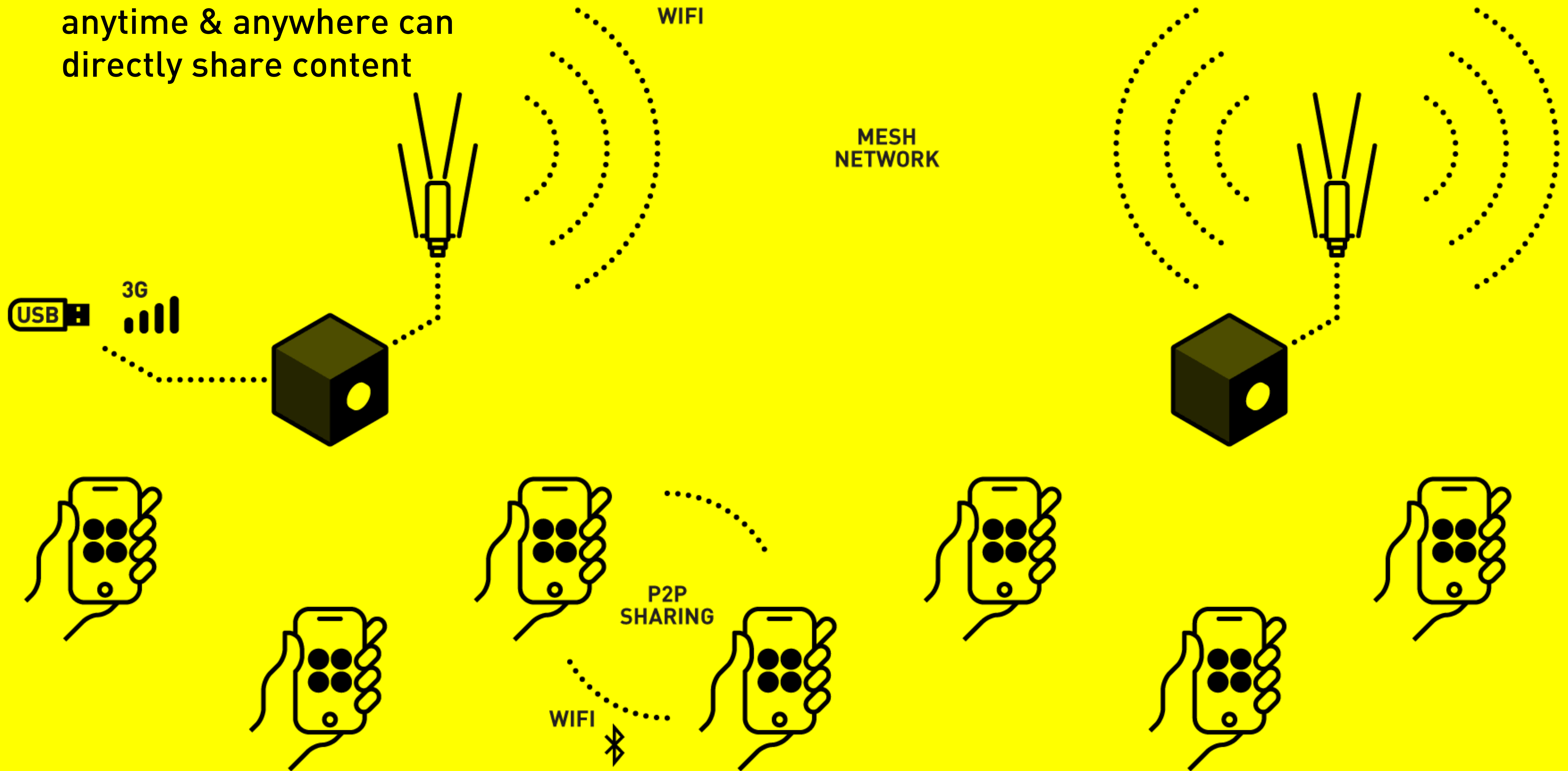
POCKET
PORTAL

Users interact with
the Pocket Portal within
300+ meters range

WIFI

USB

3G

Two or more Pocket Portals can be 'meshed' to extend range

WIFI

MESH NETWORK

USB

3G

Users of Pocket Portal anytime & anywhere can directly share content

WIFI

MESH NETWORK

3G

USB

P2P SHARING

WIFI

Farmers can access and share education material

POCKET
PORTAL

Medical Workers can study films
and images to improve medical care

POCKET
PORTAL

Schools can offer a wide range of multimedia learning materials for free

POCKET PORTAL

Where are we right now ...

1   The Pocket Portal "Air-et-terre" deployed in several locations in Burkina Faso with hundreds of on-demand radio programs and videos on agricultural issues.

2   Monitoring and Evaluation of usage planned in Q1 2022.

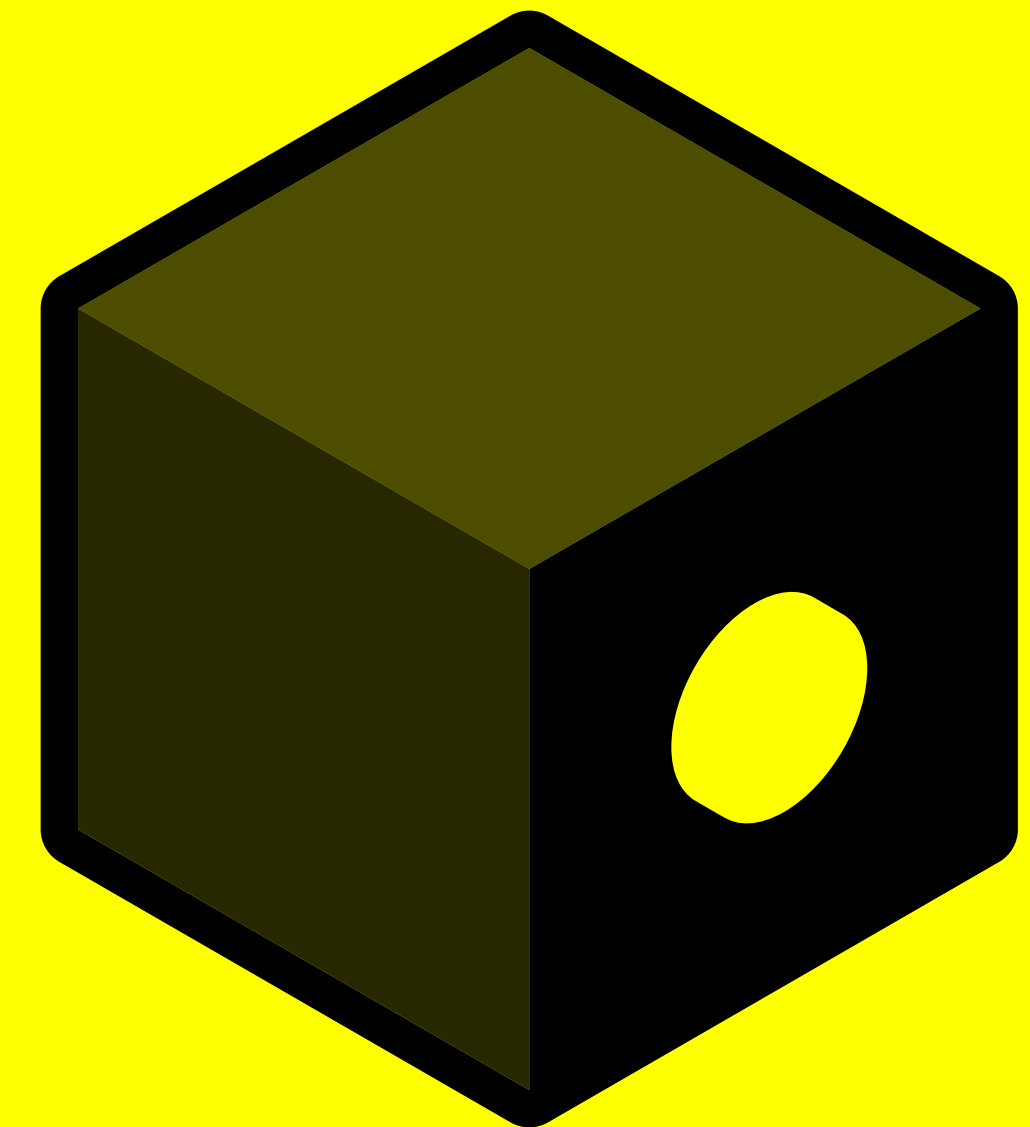3   Staged deployment of further units in Burkina Faso is planned for 2022.
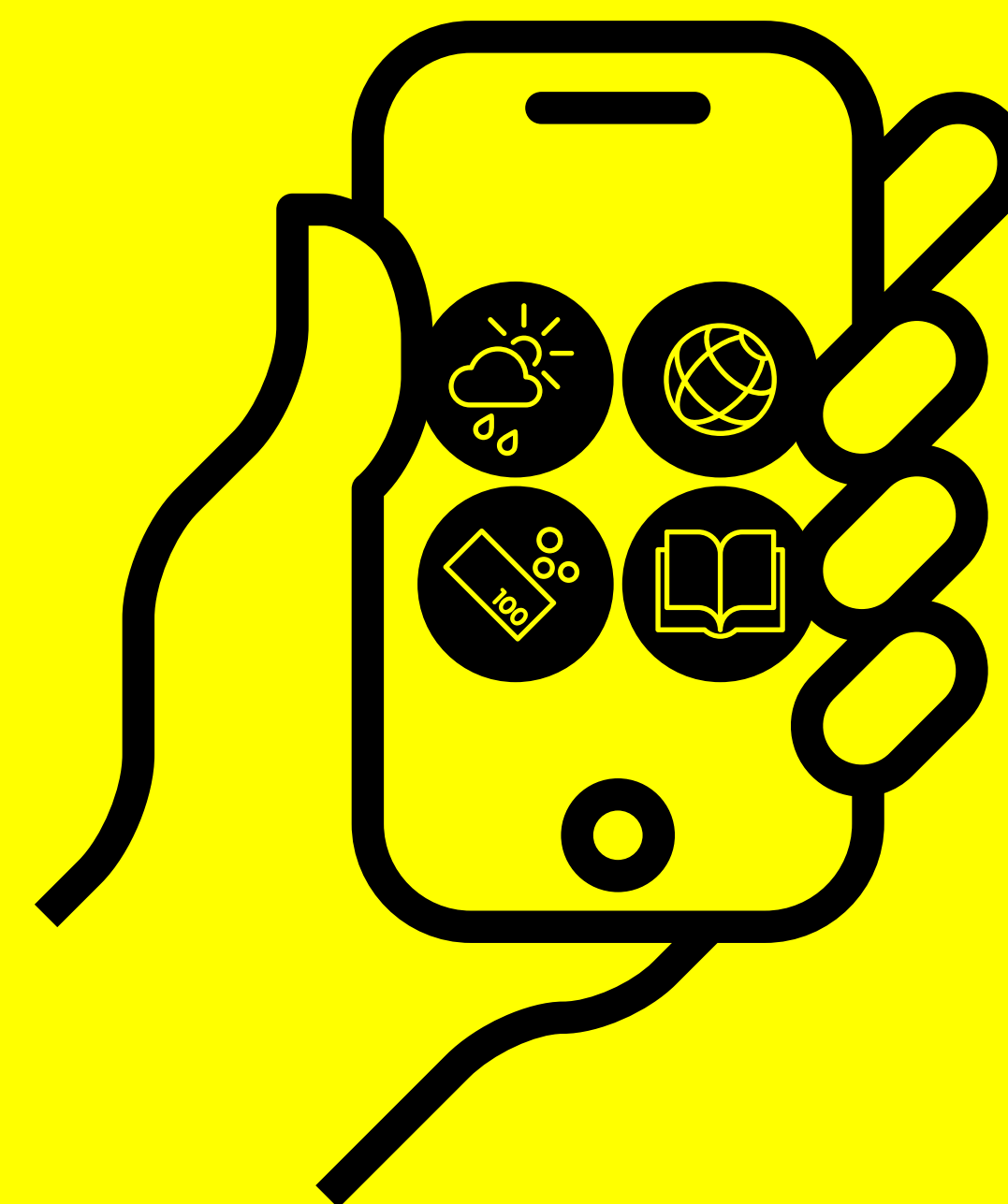
POCKET
PORTAL

Pocket Portal
Basic features

+ Rugged, low-power and easy to install device.

+ Scalable access network with mesh technology.

+ Storage available for 200+ hours of video & audio.

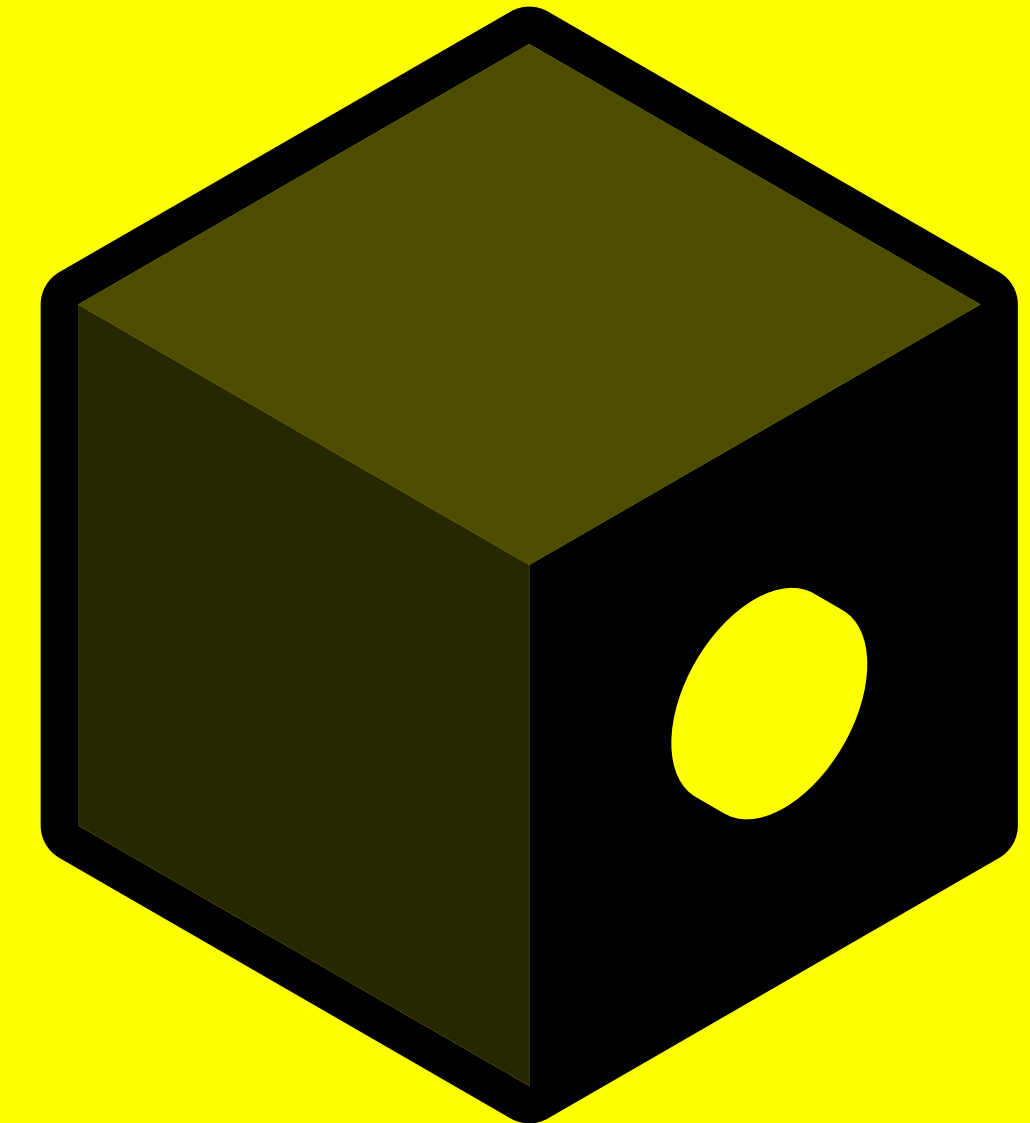+ Default pre-loaded content can be easily customised & extended.

POCKET
PORTAL

Pocket Portal
Optional features

+ Optional local area FM radio or TV broadcast transmission.

+ Optional satellite receiver for further content.

+ Optional solar power systems for added reliability (12V).

+ Optional remote management access via 3G or SMS (if network available).

POCKET
PORTAL

Multilingual design for illiterate & low tech literacy in rural areas

MiCT has many years experience in co-design, development & production in:

+ platforms supporting multiple languages & dialects.

+ accessibility for low-literacy including audio prompts & iconic platform navigation.

+ interactivity offering uploading & streaming.

+ usage analysis of platform use for planning and management.

POCKET
PORTAL

Costs

1 Each device costs ~600 Euro including default example content.

2 Design and programming costs of an offline website together with content production (eg. video & audio) (>~10.000 Euro).

3 Optional costs for FM, TV or solar power systems are site dependent (300+ Euro).

POCKET
PORTAL

Technical specifications

+ 2.4GHz & 5GHz WiFi supported.
+ WiFi secure access with password or open access without password (configurable).
+ WiFi access range of up to 300m from each node (longer options available).
+ Offers live, on-site content streaming.
+ Offers on-site downloading to device for later off-site viewing & sharing.
+ WiFi Mesh networking allows for expansion of local offline access.
+ Multilingual audio prompting available for low literacy target audience.

POCKET
PORTAL

Thank you

POCKET
PORTAL