Internet of Production Alliance

NOVEMBER COMMUNITY CALL

Mapping Global Production

by World Manufacturing Data Awardees and Development Lead Antonio Anaya

November 28, 2023 at 4 PM UTC
Register here: https://shorturl.at/rRV04

ALFRED P. SLOAN FOUNDATION

NGI DAPSI

MAKE

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 101016858.

RISA Research and Innovation Systems for Africa

UK International Development
Partnership | Progress | Prosperity

Agenda

- Welcome & IoP Alliance Updates
- Open Know-Where: Overview
- Presentation of R2 Awardee Projects
- Discussion: call for ideas and initiatives

Reminder: Community Notes

https://shorturl.at/iIKSX

IOP Alliance Community Updates

Speaker: Andrew Lamb | Chairman of the Internet of Production Alliance

Production Trials Complete 🛠️

3 products: (1) writing aid, (2) test tube rack, (3) tibial fracture fixation
Image provided by: https://aaenics.com

- Trials of the distributed manufacturing of healthcare devices have been completed by the makerspaces participating in the Innovative Manufacturing Awards Programme:

https://www.internetofproduction.org/innovative-manufacturing-awards

INNOVATIVE MANUFACTURING AWARD WINNERS

- **Design & Technology Institute,** GH
- **Kumasi Hive,** GH
- **Triple Dimension,** GH
- **Fablab Winam,** KE
- **Gearbox,** KE
- **I.O.Me254,** KE
- **Flat Rock Studio,** SA
- **The Makerspace,** SA
- **TMG Makerspace,** SA

RISA
Research and Innovation Systems for Africa

Distributed Manufacturing Ltd invites you to the

UK International Development
Partnership | Progress | Prosperity

Innovative Manufacturing in Africa

Showcase Webinar

Thursday 14 December 2023, 11 AM UTC
Via Zoom

This online event outlines the end of our project 2023. Learn more about this work and hear from makerspaces leaders across Africa.

Register here: https://shorturl.at/cdhkt

Internet of Production Alliance
MANUFACTURING CHANGE
dti DESIGN & TECHNOLOGY INSTITUTE
KUMASI HIVE
TRIPLE DIMENSION
FABLABWINAM
Gearbox BUILDING THINGS THAT MATTER
IOME 254
FLAT ROCK STUDIO
THE MAKER SPACE FOUNDATION
TSHIMOLOGONG
MAKERSPACE

Internet of Production Alliance

DECEMBER COMMUNITY CALL

🚀 Launch: Business Models

Catalogue and Website

by Anna Sera Lowe

Manufacturing Change

December 12, 2023 at 4 PM UTC

Register here: https://shorturl.at/oqKUX

ALFRED P. SLOAN FOUNDATION

NGI DAPSI

MAKE

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 101016858.

RISA Research and Innovation Systems for Africa

UK International Development

Partnership | Progress | Prosperity

Global Digital Health Forum

IOP Representation

IOP Chair Andrew Lamb will be attending the upcoming event in Washington, D.C.:

Global Digital Health Forum, 2023

🔊 Listen here: https://www.gdhf.digital

Major Supporters

USAID FROM THE AMERICAN PEOPLE

BILL & MELINDA GATES foundation

Patrick J McGovern FOUNDATION

MOMENTA

Podcast Alert!

The Internet of Production has been featured in Momenta's *The Digital Thread* Podcast Series, Episode #219:

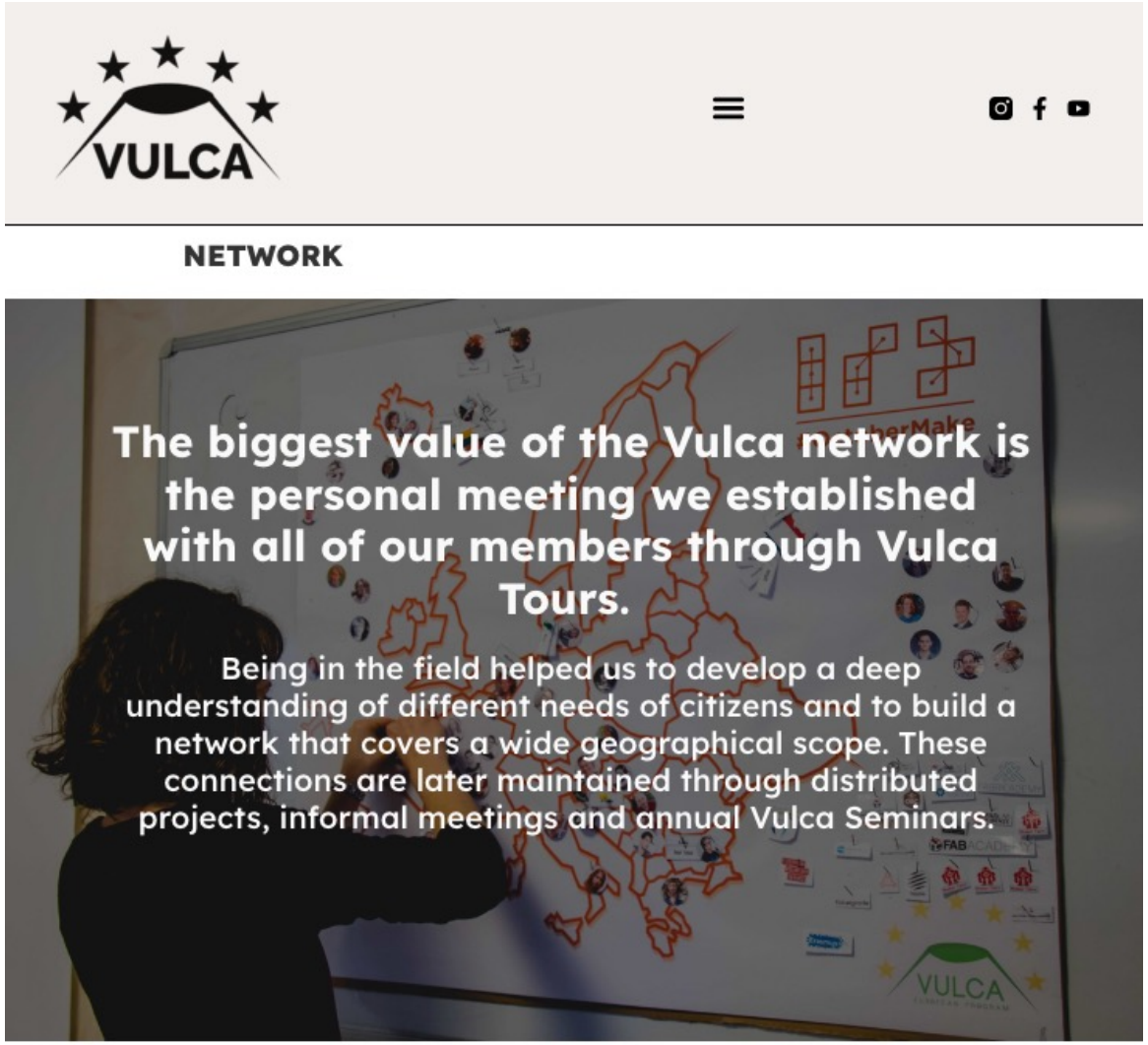
Shaping the Future:
A Dialogue with Andrew Lamb on Connectivity in Manufacturing

🔊 Listen here:
https://shorturl.at/bprxy

Exploring New Collaborations

Meeting with the VULCA Network of European Makerspaces:

https://vulca.eu/network



VULCA AIMS AT BUILDING A FUTURE EUROPEAN SOCIETY THAT FOSTERS INNOVATION AND COOPERATION AT THE CITIZEN LEVEL

Exploring New Opportunities

Annual meeting of SOCAP Global / the Sorenson Impact Institute:

https://socapglobal.com/events/socap23

MAKE

Exploring policy solutions to promote makers in Europe & Africa

Join the next community call for insightful discussions by experts on shaping policies in the makerspace ecosystem.

13th December, 2023
3pm CET

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 101016858.

FAB CITY

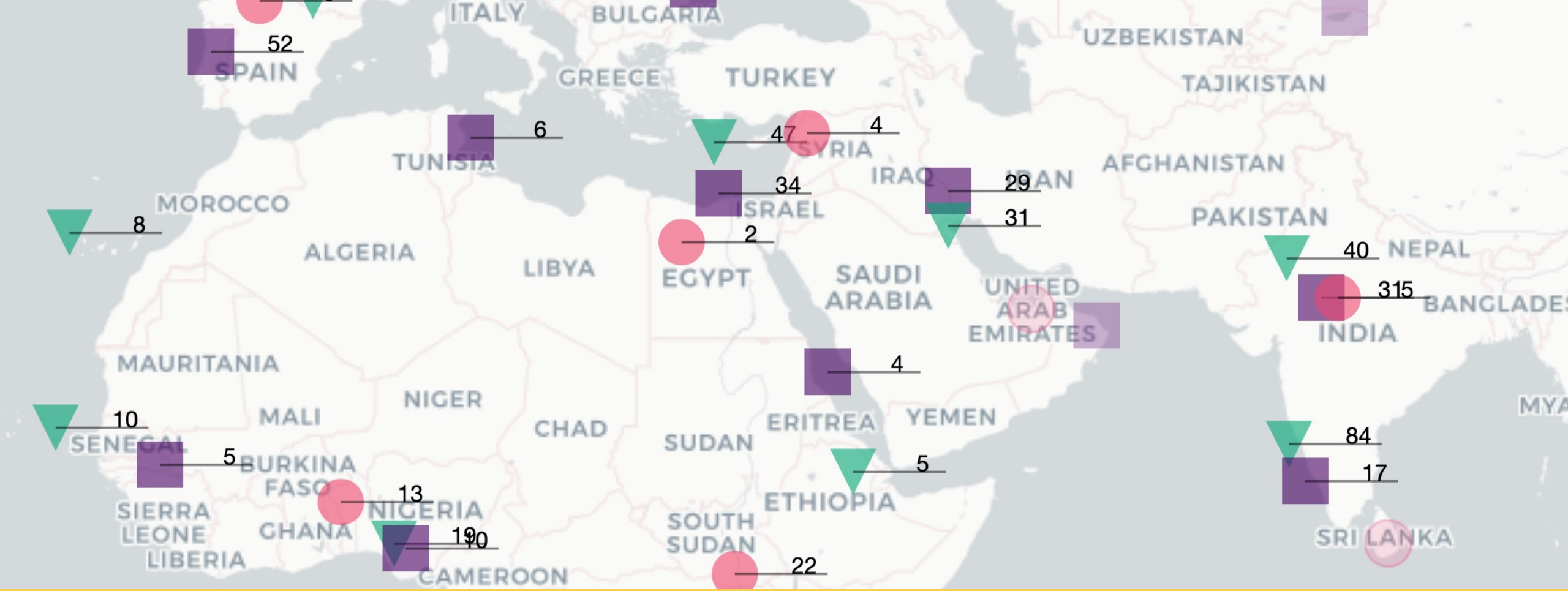
FAB LAB BCN

Jessica Nguema

Congratulations to Jessica 🎉

She will be taking maternity leave Nov 27 2023 - May 2024. During this time, the following projects will be managed by:

- **mAkE:** Barbara Schack
- **IMA:** Andrew Lamb



Open Know-Where (OKW) Overview

Speaker: Antonio Anaya | DevOps Engineer, Internet of Production Alliance

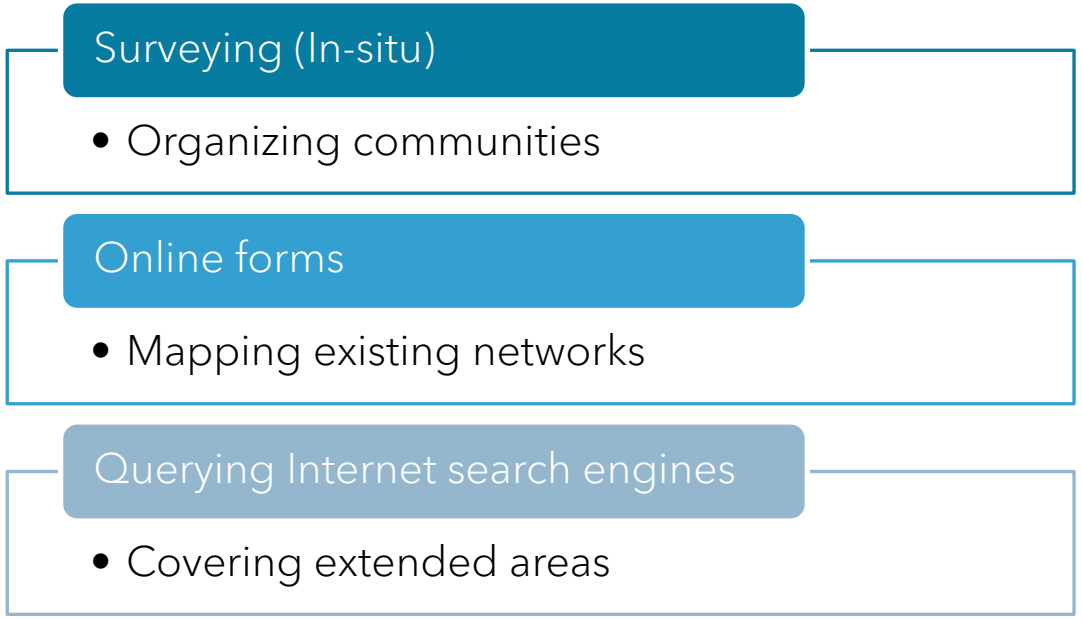
Data collection in practice

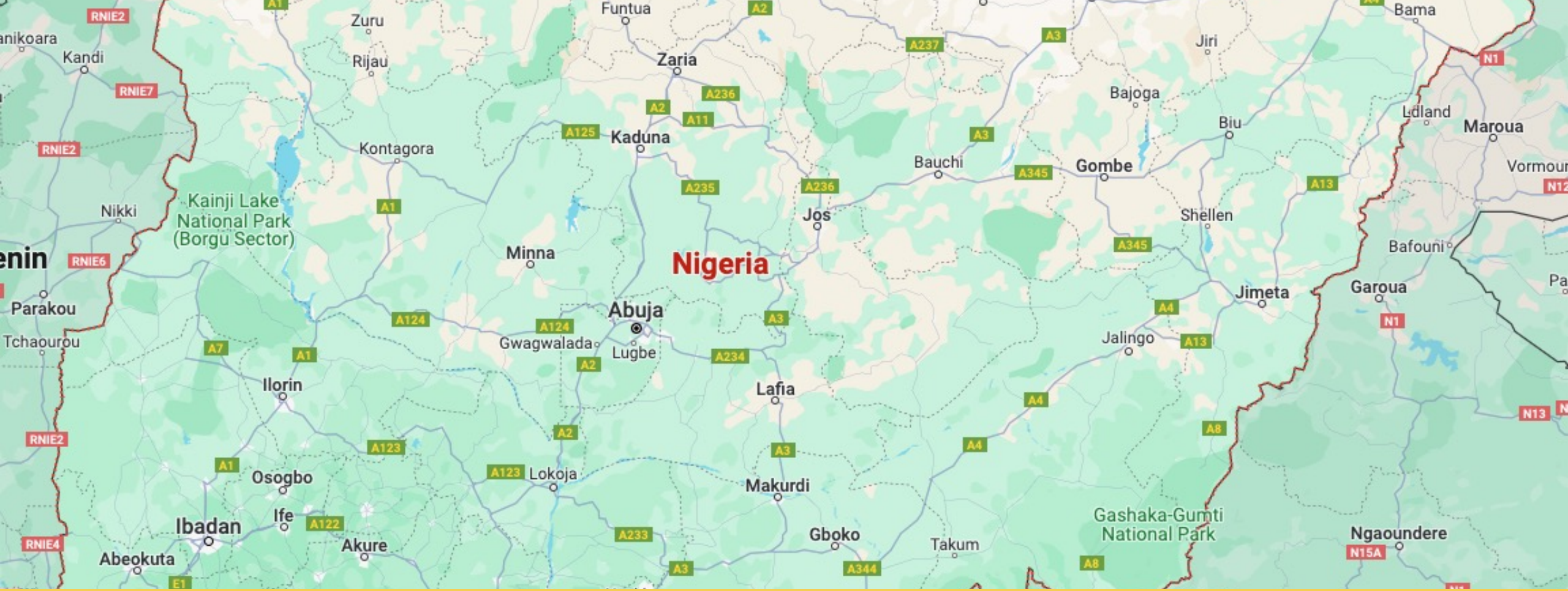
Exploration to find different ways for knowing where to make things.

Snapshot of community applications

Reliability & Quality

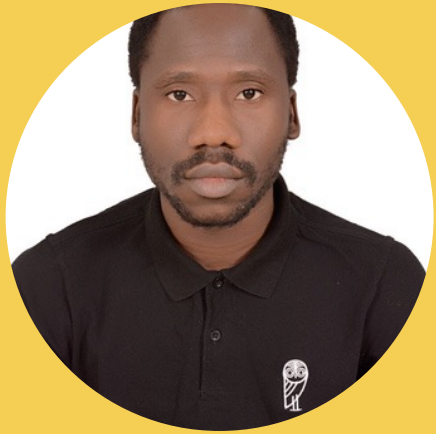
Insightful & Helpful





Awardee Presentation: Education4All

Speaker: Oluwatobi (O'Great) Fakoya
Team Members: Bolaji Akorede, Abdulwasiu Tiamiyu, Suleiman Abdulsalam



Mapping Out Manufacturing Capabilities in Nigeria

A Project funded by the Internet of Production Alliance

Internet of Production Alliance

Education 4 All Initiative

Unpacking Sustainable Development Goal 4

Team Member :
Oluwatobi Fakoya, Akorede Bolaji, Abdulwasiu Tiamiyu and Suleiman Abdulsalam

Outline

- General Overview of the Project
- Data Collection process
- Questionnaire Design
- Overview of the Project
- Recommendations

General Overview of the Project

- The Open Know-Where project by the Internet of Production Alliance is a standardized mapping process for documenting and sharing information about the location of manufacturing facilities and capabilities on a global scale.

- The goal of this data collection is to map out the capabilities of local manufacturing organizations across Nigeria for global awareness and patronage.

Data Collection process

- **Recruitment**
  - We had advertisement on several platforms to recruit volunteers in addition to our already established team of volunteers
  - We received more than 80 applications
- **Shortlisting process**
  - We checked through each volunteers profile, added them to a group.
  - We held both individual and group discussion with the volunteers in order to get to know each of them, their experiences and commitment.
  - 40 volunteers qualified out of the 80 volunteers that registered.

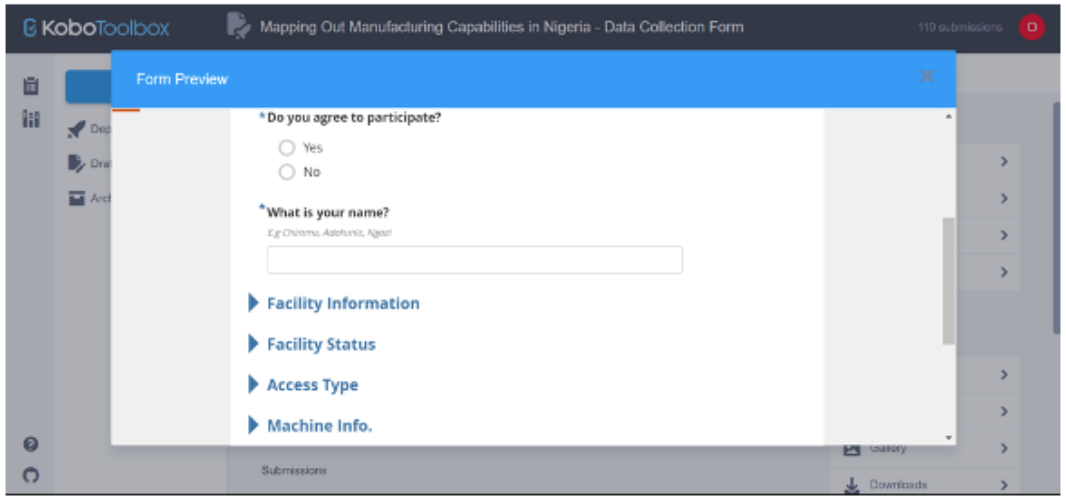
Data Collection Process

1. Recruitment: $>$ 80 volunteers
2. Shortlisting: 40
   a. Experience
   b. Proximity to manufacturing facilities
   c. Age/Education

Questionnaire Design

The survey questions were grouped into four sections after the consent and volunteer's name. Some questions were made compulsory while others were optional.

- **Facility Information**: Name, contact, machines and location of the manufacturing facility.
- **Facility Status:** Affiliation, operation hours and type.
- **Access Type**: Access type, accessibility, certifications, and maintenance.
- **Machine Information:** Name, maker and model, raw material, end product(s), required skills.



Training of Final volunteers

- We added the final selected volunteers to another group
- Organised a 3 days intensive training for them
- We trained them on how to use Kobotoolbox
- Explained the aim of the project to them thoroughly.

Verification before approval

- All data were verified by the edu4all team before the approval of the data

Funds Allocation

- Remuneration for volunteers: For every data point (facility) that a volunteer got, he/she was remunerated.
- T-shirts were provided to every volunteers
- Certificate for Volunteers (Still in the pipeline)
- Logistics

Duration of the Project

Numbers of facilities : 50

Project commencement: June 19

Duration: 5 weeks

Volunteers' Feedback

Recommendation

- Quicker response to email in future correspondence.
- Increased funding to motivate volunteers.
- Letter of Introduction from lead organization to ensure transparency.
- Future collaboration with Edu4all in funded projects.

Thank
you

Awardee Presentation: MboaLab

Speaker: Stephane Fadanka

Internet of Production Alliance

OKW R2 Manufacturing World Map Data Award

Mapping Manufacturing Capabilities in Yaoundé and Douala, Cameroon

28/11/2023 | ONLINE

By Stephane Fadanka

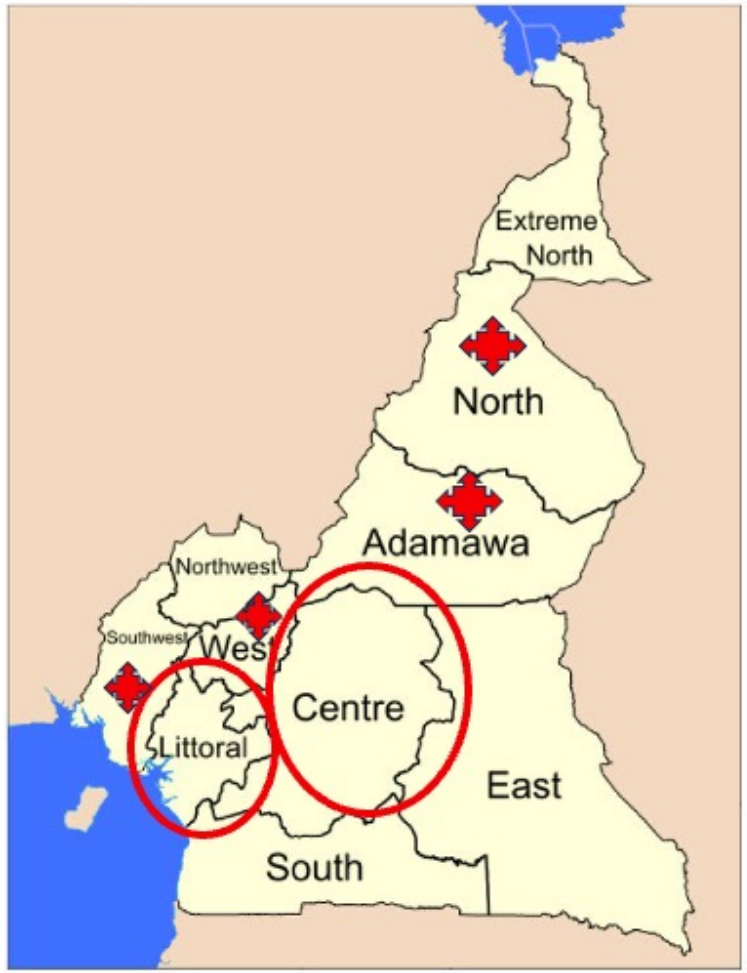
Executive Director, Mboalab

Outline

1. Context
2. Objectives
3. Strategy and Activities
4. Progress
5. Key Findings OKW experience

Introduction

- 10 Regions
- Nature:
  - Formalised (DiHs) and makerspaces
  - Local companies and privately owned businesses
  - Other: Technical schools and universities
- Mostly in the Littoral and Centre regions
- New spaces - Adamawa and North region



Objectives

- **Map machinery and production capacity in Yaoundé and Douala.**

1. Changed to all Cameroon (Other regions were involved)

2. Strengthen network and collaboration.

Methodology

01

Communication

- Events
- Social Media
- Network

02

Online Survey

- Kobo toolbox
- Pre-trial with Beta testers
- Refinement and Publication

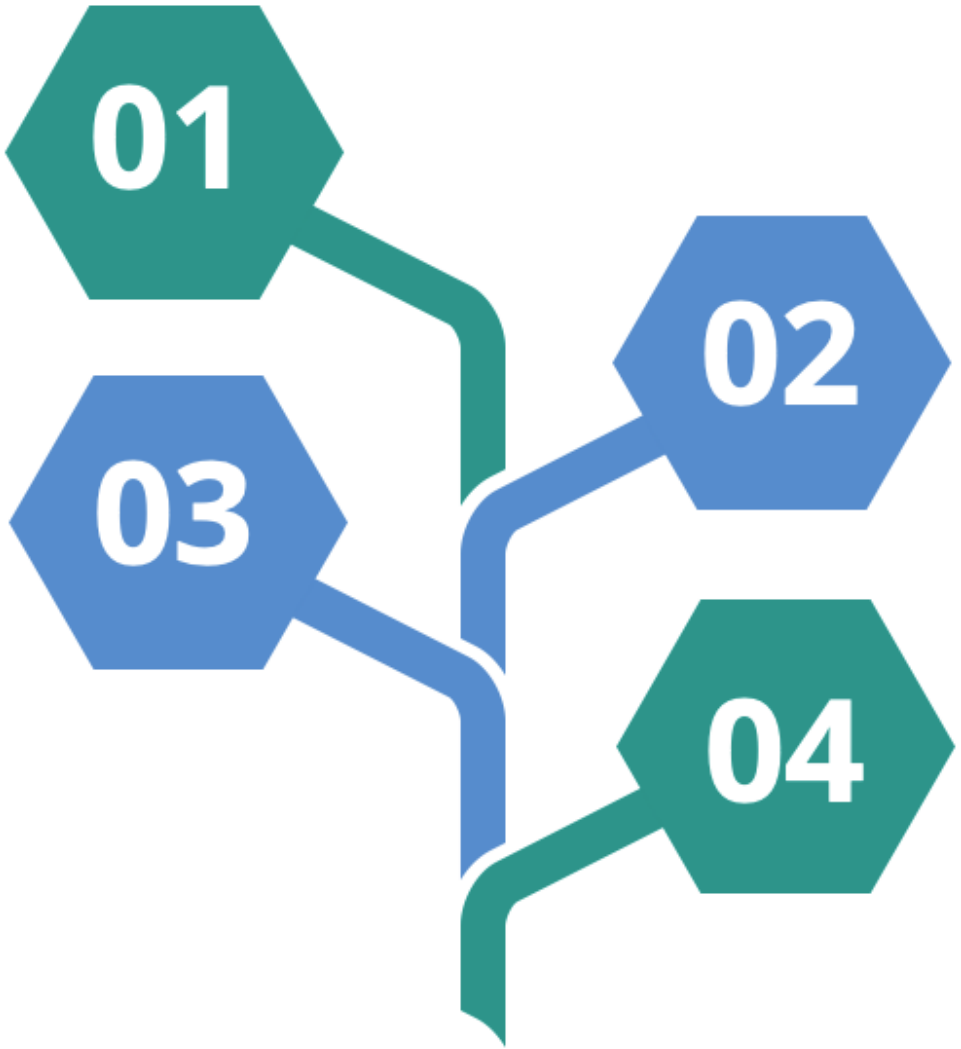
03

In-Person Visits and Interviews

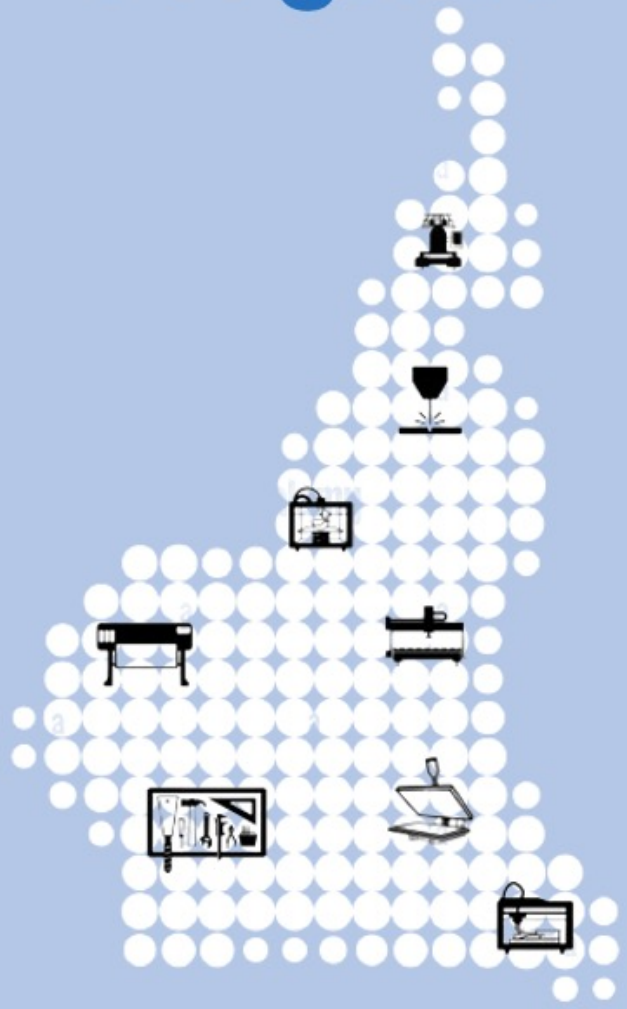
04

In-Person Seminar

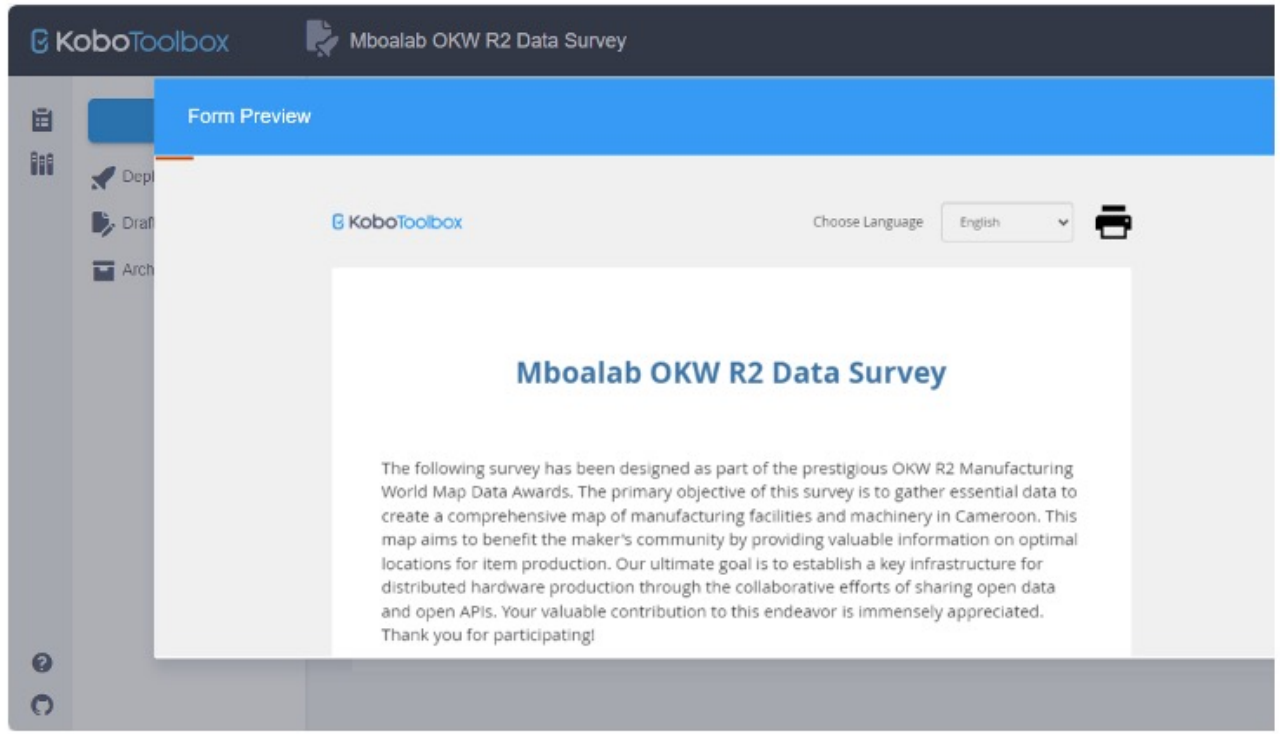
- Gathering key stakeholders in Yaoundé
- Project details objectives and benefits
- Interviews
- Presentation of the survey



Progress

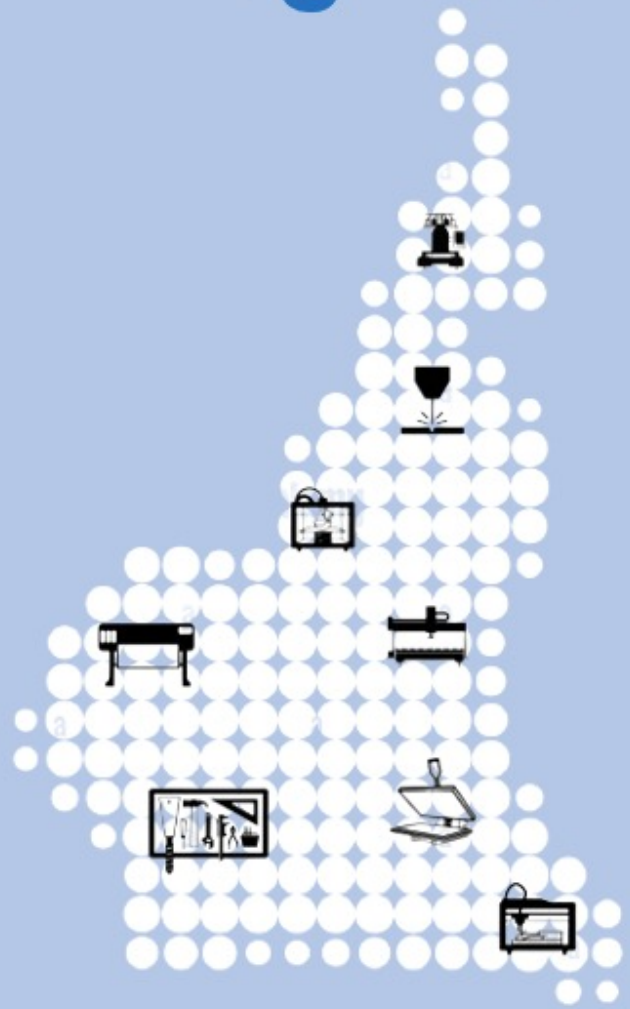


1. Survey designed and validated
2. Shared with Beta tester
3. Optimization was made

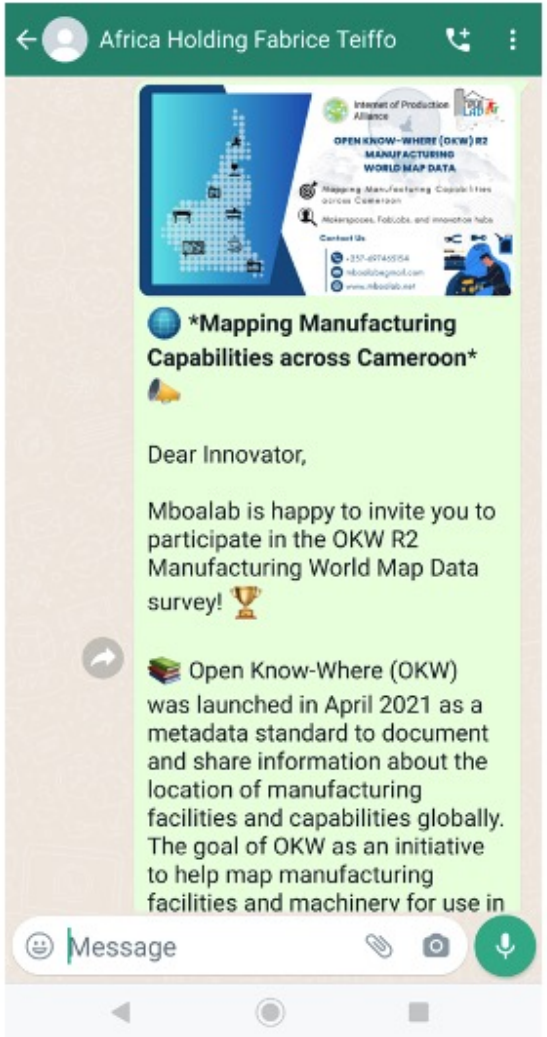


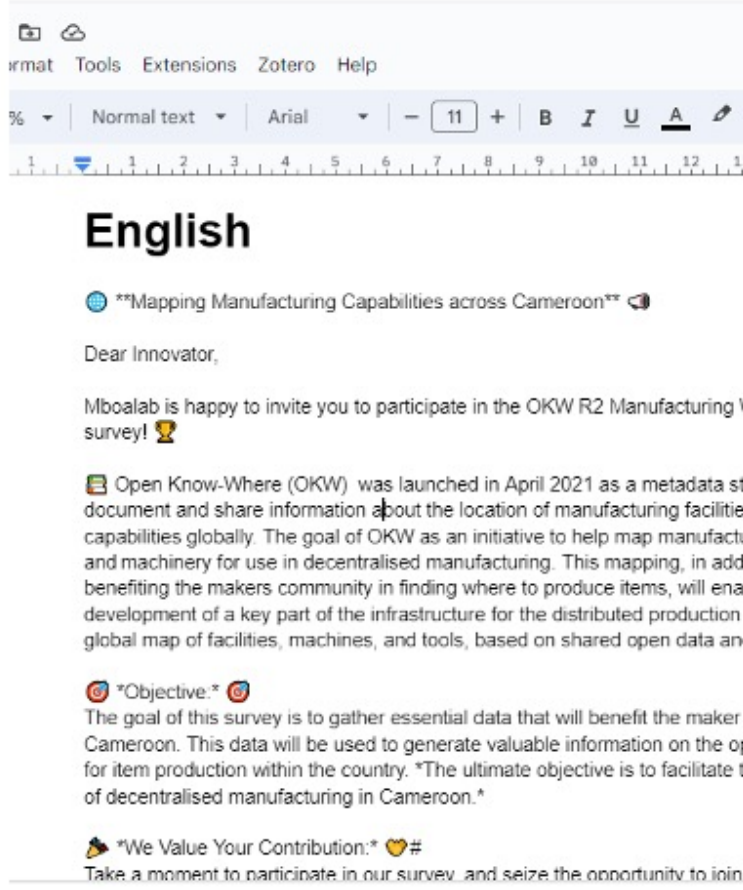
Mboalab OKW R2 Data Survey | KoboToolbox

Progress



Communication (Social Media, Field Visits in Yaoundé)





Example Flyer Used

Internet of Production Alliance

MBOA LAB

OPEN KNOW-WHERE (OKW) R2 MANUFACTURING WORLD MAP DATA

Mapping Manufacturing Capabilities across Cameroon

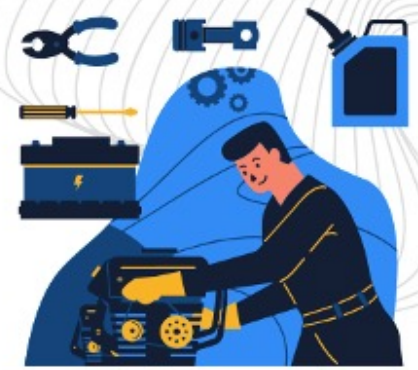
Makerspaces, FabLabs, and innovation hubs

Contact Us

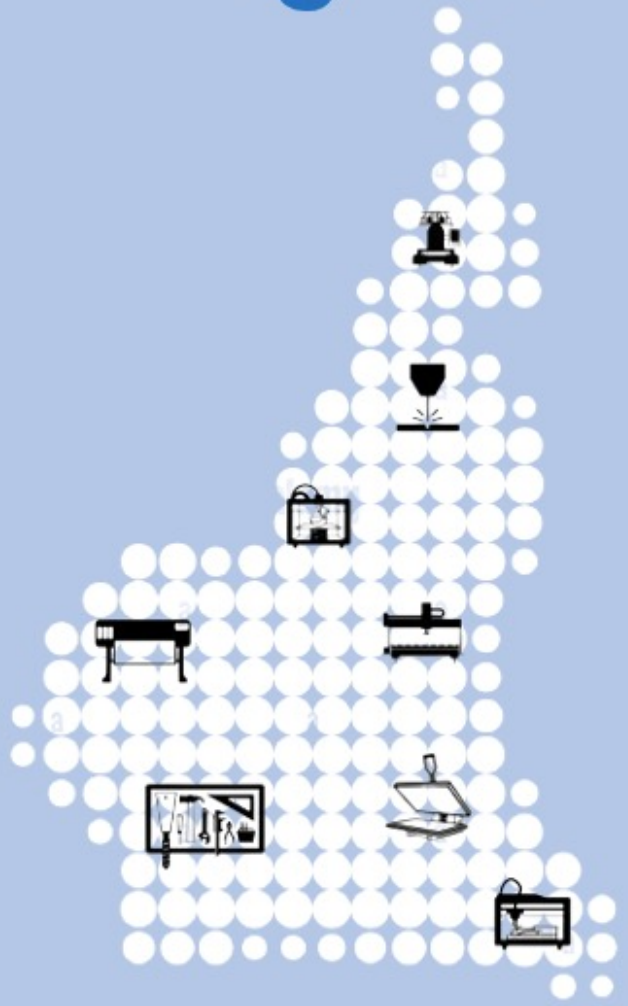
+237-697465154

mboalab@gmail.com

www.mboalab.net



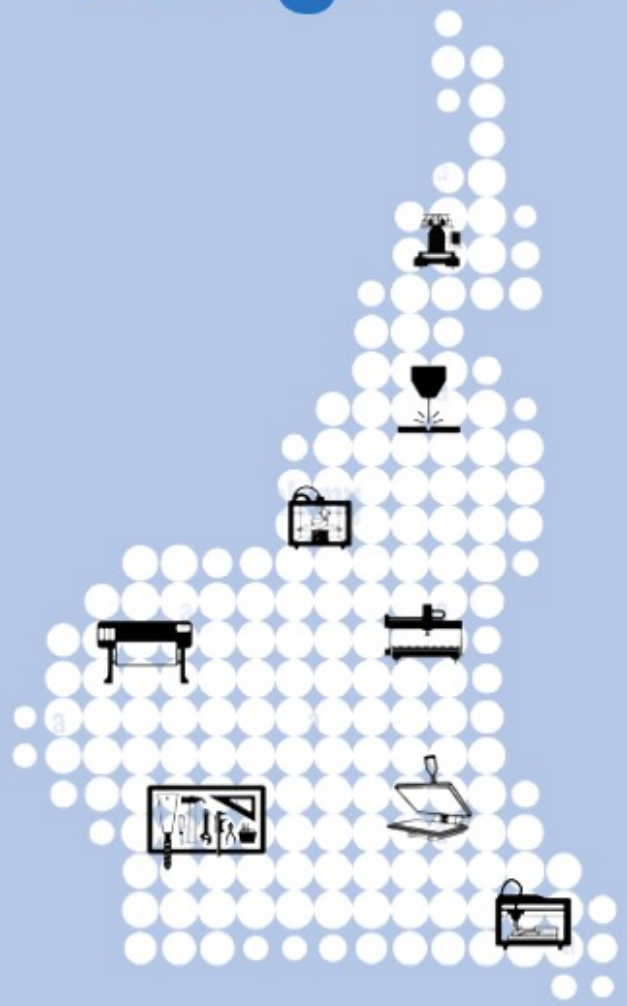
Progress



In-Person Seminar in December 2023

- Gathering +- 25 key stakeholders in Yaoundé
- Project details objectives and benefits
- Interviews
- Presentation of the survey

Progress



- ❑ Survey Filled by 3 Testing organisation then optimised.

- ❑ A total of 20 Spaces/Organisation were identified and Approached.
  - 8 in Yaoundé
  - 5 in Douala
  - 3 in Buea
  - 4 in West and other regions

- Some reluctances observed, but most organisations were enthusiastic and interested!

- Mixed Online + In-person Data collection Works best;

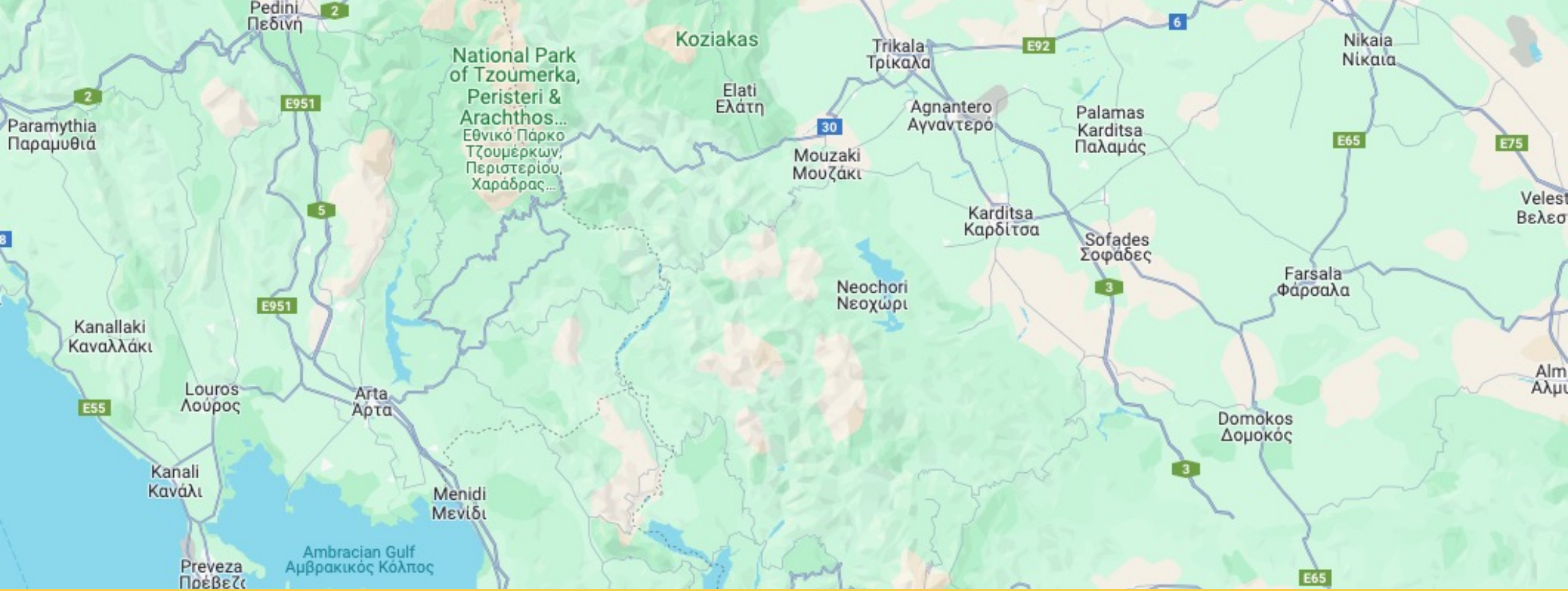
Key Findings OKW experience

- ❑ Physical contact and trust is important for people to share their data and contribute.
- ❑ Communication (Regular reminders etc, be clear on the objective and advantages.)
- ❑ Growing community of Makers and importance to cluster as a network and know each other.
- ❑ OKW strong support to strengthen already ongoing efforts to create a community of makers in Cameroon.

<u>Recommendations</u>

- **Language barrier:** would be good to have the final OKW resource in other language when finalised.

THANK YOU



Awardee Presentation: Greece

Speaker: Spyros Nompilakis

MAPPING MANUFACTURING CAPABILITIES OF MAKERSPACES IN GREECE

SPYROS NOMPILAKIS

SURVEY STRUCTURE

- 43 Questions
- Deployed in September 2023
- Left open for 40 days

SURVEY PARTICIPATION

- Shared with 26 spaces
- 6 turned out to be closed
- 15 participated
- 1 clearly expressed no interest to

DATA COLLECTED

Location entries	15
Machines	107

THANK YOU!

SPYROS@BLUEGREECE.ORG

Open Know-Where Initiative Relaunch 🎉

Meeting resources, as well as all items related to Open Know-Where can be found on the IOP community forum:

https://community.internetofproduction.org/c/okw/13

Join the conversation!

Mark your calendars for the upcoming OKW Initiative Meetings in 2024 (02:00PM UTC/GMT):

- Jan 25
- Feb 22
- Mar 28
- Apr 25
- May 23

Everyone is welcome to sit in on these meetings, you do not have to already be a part of the group.

We look forward to new faces and voices joining the conversation in 2024!

Questions and Open Discussion

Questions for the Awardees and Discussion of What Comes Next

https://shorturl.at/iIKSX

Thank you for joining us

Please get in touch if you have any questions or queries:

X: @IoP_Alliance, @openknowhere

Email: info@internetofproduction.org

Join our community discussion:

https://community.internetofproduction.org