

JHUB

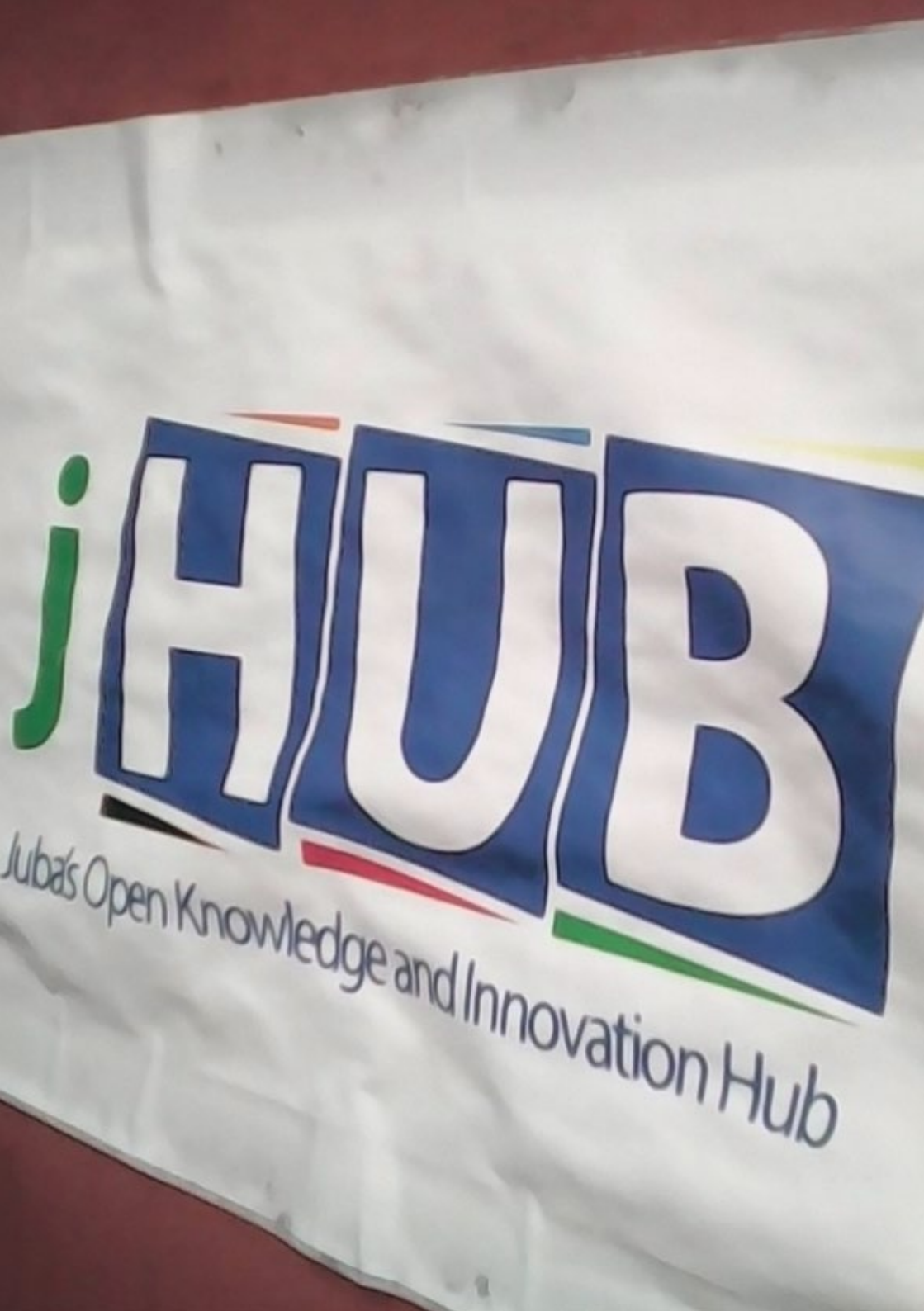


OPEN KNOWLEDGE AND COLLABORATIVE
MEDIA ACTIVITIES IN JUBA, SOUTH SUDAN



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Documentation and insights on the initiation of a community-based
media training center in South Sudan 2015



FROM A KAPITAL IDEA, TO A VIRTUAL ACADEMY TO jHUB, SOUTH SUDAN'S FIRST OPEN KNOWLEDGE AND INNOVATION HUB

Riding on the wave of enthusiasm and opportunity that gripped South Sudan after independence in 2011, a group of idealistic, creative youths – primarily Juba University students from a variety of fields and backgrounds – came together to learn and harness the power of media and film-making to help tackle the challenges their new country faced.

As a group they were committed to empowering the communities in which they live, work and study, founding the Kapital Movie Industry Corporation ... a home-grown local organisation that would be neither a corporation, nor an industry – but an idea, incorporating the urgency to act in an industrious, forward thinking manner to secure the new country's freedom and aspirations.

Without technical or financial resources, Kapital's founders taught and hacked their way into a peer to peer mentorship structure that sought to give an opportunity for citizens to exchange knowledge, develop ideas and find means to share these in order to help cement the process of nation building. They called this the Kapital Virtual Academy (KVA), a self-styled academy built of collaborative

learning, without a fixed space or structure, that could exist virtually anywhere. After seeing and experiencing the ways in which media and ICTs can encourage economic and social innovation in Africa, Kapital looked to create an open and independent entity that could empower communities, address urgent literacy challenges and tackle difficult aspects of the region's historical development and cultural scenarios.

In late November 2013, weeks before the country fell into a violent conflict shattering the illusions of the new state, Kapital's co-founders Lagu Stephen and Richard Dratu, laid out their idea for a media oriented learning and exploration space ... the kHUB, or Kapital Innovation Hub.

"The idea behind kHUB is that we have great challenges as youths in this country ... the issue of space, of literacy, where people can come together and learn computer based knowledge. A place where there is access to internet, a place where people can come and learn basic computer programming, where people can learn to deal with repairs, engaging with some of the basic forms of technology. This is the expression of the kHUB.

This is where we want youths to come ... they should have a place where they can come and discuss issues facing them, to learn new things, be able to associate freely, and connect with others.

We also talk about open source ... there are so many open and free resources online that people are not aware of! People don't even have an awareness of how useful a computer is. But with peer-to-peer sharing of knowledge, you can create a forum under something like kHUB. You get to learn new things by seeing others do it ... different groups come together and share ideas. For example if something defeats me in my computer ... I have no idea who to contact in order to solve the problem. There is no space that can bring people together to share knowledge, that can help us think positively, to adopt good methodologies of approaching the complex issues that exist in South Sudan, for example, one of the top goals we face – literacy!

Nowadays literacy is defined not only by taking a pen and writing something on a piece

«KAPITAL Movie Industry Corporation is a group committed to empowering the communities where they live, work and study. KAPITAL Movie's focus messages are about health, conflict mitigation, and the development of peaceful methods of association through the power of films and short videos.» *Kapital Movie Mission Statement*

of paper, but how capable are you to access resources using computers? Even our professors say that literacy will be defined by our ability to interact with computers. There is a need of capacity building for all those people. If there is this active space, like kHUB, if it is there ... this is where people get to discover. For example, at the university, many places, people in charge have little knowledge about open source tools, like the gorgeous operating system ubuntu ... how useful these can be. This is why it is important to establish something like kHUB in South Sudan ... a place where youth can come together freely to express themselves and learn from each other. If you see the divisions of South Sudan, it is among the youth ... not the elders. The youth have been uprooted, and they create the division. If we have a system that allows for people to come together, to share ideas and interact – different cultures coming together and expressing things that they know. The kHUB would be a very good place for this, and to address other issues that are facing the country. We could invite international students to come here and they can show us how they do their things. By the time they leave ... your head is full of dreams, you get challenged ... a challenge you need to face on the ground!"

In 2015, Kapital, in collaboration with icebauhaus e.V. and r0g_agency for open culture and critical transformation gGmbH were given the opportunity to develop and

structure these ideas ... and take the steps up to help create a community oriented Juba media lab, jHUB.

Having reached critical limits of the organisation's minimal infrastructure and resource use, the adhoc 'peer to peer' learning strategies that Kapital developed out of a sheer lack of tangible training opportunities needed to be consolidated into a holistic functional entity. The need to establish partnerships with like-minded organisations locally and internationally, was recognised in order to strengthen the scope of Kapital's activities, linking these with effective professional capacity building.

Kapital needed to emerge from the isolation experienced by those pushing innovation and progress in a new country, constantly being defied by its own internal struggles, and actively join a growing, diverse and collegial network of experienced innovation hubs and technology development labs spanning Africa. The rapid establishment and linkage of such independent 'knowledge and economic empowerment' spaces could serve to both support South Sudan's nascent civil society as well as provide a means for young South Sudanese to express themselves beyond their country's borders.

Reflecting this opportunity to diversify, strengthen and professionalise its organisational capacity Kapital took the necessary steps not only to work towards establishing a community oriented open space for learning

«There was a room in KAPITAL Movie, it was kind of a garage, but we decided to make it into jHUB. We need to start with something we have already. It's an open space where each and every youth who has innovative skills or ideas, or, if not but wants to learn, can come around and learn something. Because, we can't just be waiting to be employed by the government or by the UN or that kind of thing.» *Emmanuel Mbisimo, student @ KAPITAL*

and self-directed discovery but to also re-define their basic conceptual identity. What had been known formally as the 'Kapital Movie Industry Corporation' would now become an acronym reflecting the community's values and aims: Knowledge, Afro-Innovation, Peace, Information, Technology, Activism and Leadership.

Step-Up Juba Media Lab has been conceived in order to capitalise on the organisation's strong self-initiated, home-grown practice, as an attempt to support those who need to be the ones teaching, helping and leading by example a nation where the lacks of self-confidence, literacy, life skills, technical aptitude and access to information are among the leading hindrances to peace and equitable development.

By Stephen Kovats, co-founder r0g_agency for open culture and critical transformation, Berlin.



STEP-UP JUBA MEDIA LAB

Step-Up Juba Media Lab 2015 was an initiative to 'step up' towards a community oriented media and education lab, based on three modules: Business Model Development; Curriculum and Community Development; International Innovation Exchange. The objectives of the Business Model Development are: capacity building for basic organisational skills; introduction to successful and easy-to-use management tools and methods; and an introduction to business model generation and how to apply the BMC method.

At the end of the introductory seminar KMIC Director Lagu Stephen put up a sign saying "jHUB", planning to announce the opening by the end of the year. Originally called kHUB, as in 'Kapital hub' the idea was challenged by both the local and international community as limiting the endeavor to the Kapital Community. Hence in 2015, the name jHUB was given as being more inclusive and to give a sense of the community oriented focus as the Hub emerges.

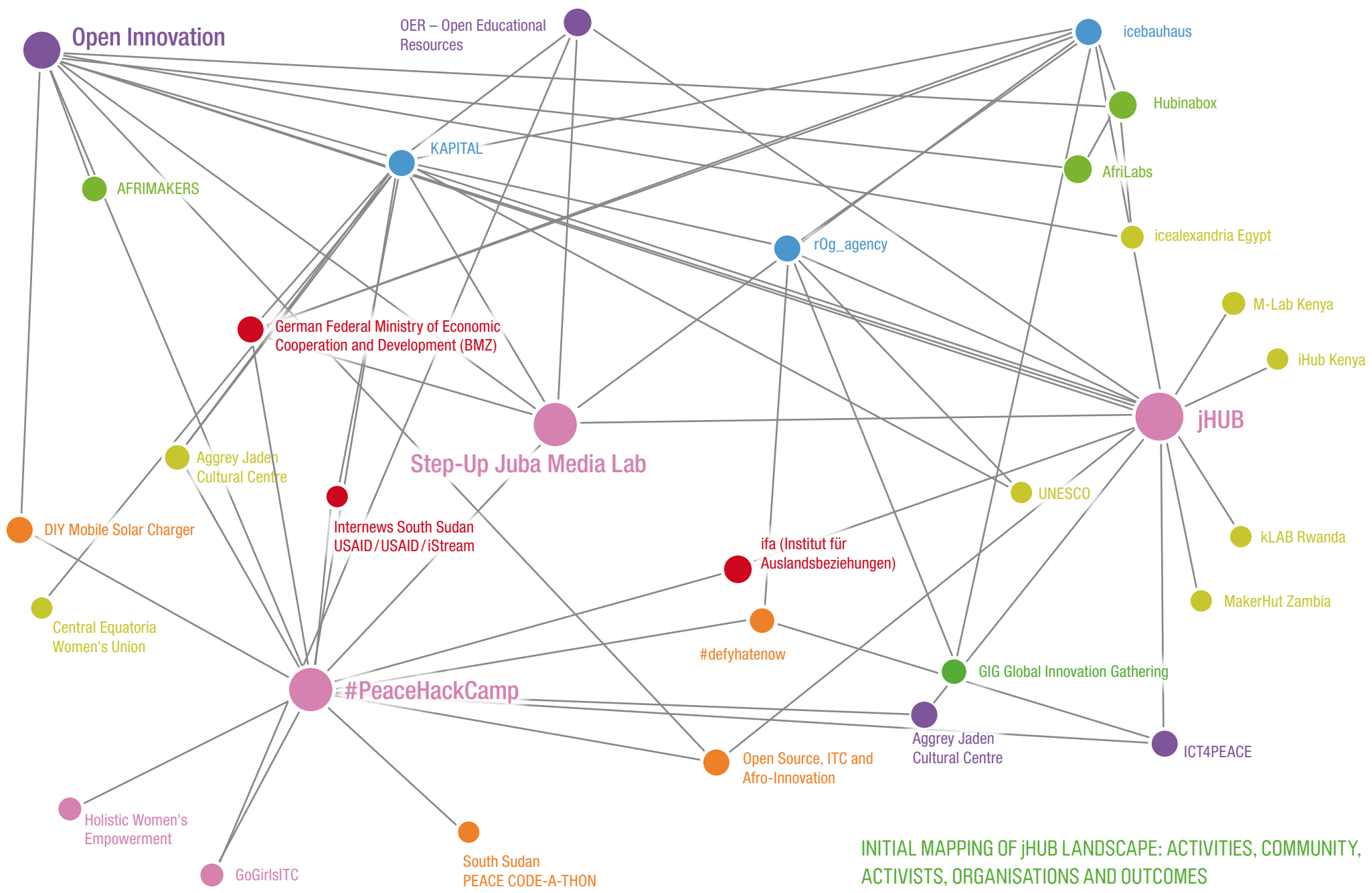
jHUB is South Sudan's first open knowledge and innovation hub. Tapping the hopes, aspirations and dedication to create a new future beyond conflict the young jHUB community, whose members hail from all of South Sudan's regions and ethnic groups, aims to transform these challenges into creative business and vital training opportunities relevant to South

Sudanese youths as well as forming new partnerships and networks, both regional and international.

In September, the first charter of jHUB was established under the guidance of Marcos Lemma, the co-founder of iceaddis, together with Stephen Kovats, the founding executive director of r0g_agency and Lagu Stephen, the founding director of Kapital Movie together with students of Kapital Academy who now are the pioneer members of jHUB.

Organisation of the #PeaceHackCamp in December was a major event of Kapital, bringing all the Step-Up Juba Media Lab activities into focus. This event brought the project participants, including the KMIC team, Step-Up seminar participants and 32 further interested #PeaceHackCamp participants to further structure and strategise the formation of Juba's media and innovation hub, the jHUB.

The event included special Step-Up guests and mentors, representing numerous successful hubs from Africa: Sheila Birgen, m-Hub Kenya; Mugethi Gitau, iHub Kenya; Evans Campbell iHub Kenya; Aphrodice Mutangana, kLab Rwanda; Daryl Lucas, Maker-Hut Zambia; Ahmed Bastawy, icealex Egypt. Memorandums of understanding were signed with regional and international hubs to continue the exchange and knowledge transfer initiated by Step-Up Juba Media Lab.



INITIAL MAPPING OF jHUB LANDSCAPE: ACTIVITIES, COMMUNITY, ACTIVISTS, ORGANISATIONS AND OUTCOMES

PUTTING SUSTAINABILITY FIRST! The business model approach.

This description of the business model serves to outline the important business areas and guidelines for the establishment of jHUB, South Sudan's Open Knowledge and Innovation Hub. The business model will be described using the well known, established and successful method or tool called "Business Model Canvas (BMC)".

The seminar started with an introduction to the background and objectives of the BMC. The KMIC team worked together, and produced the first iteration of their own business model.

The customer segments of jHUB attributes to the community it will be serving. jHUB, as a community oriented space, should serve to establish the basic inspiration ground for pupils who would like to test, explore and take advantage of digital technology. The media centre should support those who seek to add extra knowledge or exercise and tap their talents beyond what the usual school programs offer and should be open for clients, who can pay for services such as trainings or media productions. This includes the physical hub space itself, which needs to be equipped with utilities such as internet, training equipment, human resources, open source methods and tools, and community engagement.

Using the different service or information delivery system, jHUB will implement the diverse channels to increase awareness about the organization, introduce products or conduct its services. jHUB f.e. is already increasing the presence and visibility. Besides social media the jHUB website (jubahub.org) is of high importance to communicate jHUB events/trainings or contact information. Free community events f.e. will help to spread the word in a cost-efficient way especially to those groups who are rarely online. The following activities are the most important to make the business model work.

«The format is really very interactive, I liked it. It makes one feel you have achieved something in the process, it empowers one, it gives one the ability to decide things, to think and to resolve things on a higher, on a manager level on how to develop ideas and put them into practical use. I'm very confident in the knowledge and skills that have been imparted into the staff of KAPITAL and I am sure they have the capacity to run the hub.» *Olimba Edwards, creative productions manager @ KAPITAL*



Business Model Canvas – plotting influencers and value propositions

INCREASE AWARENESS, INTRODUCE PRODUCTS, CONDUCT SERVICES ...

Training opportunities

jHUB provides training opportunities in media production, entrepreneurship and ICT-development.

Co-Working space

There is a need for entrepreneurs in South Sudan to have access to co-working spaces where they can work collaboratively or individually on developing their projects. Most youths of South Sudan have resorted to working in hotels where conditions are not suitable to develop projects and business ideas. Co-working offices would connect and spark a new era of working in South Sudan, and provide access to experts who can assist in technical areas, organisation, production and publicity of projects worked on.

Conducting research and consultancy

Many institutions, government ministries and private sectors need human resources to conduct research, so jHUB will specialize in conducting research and consultancy, in open data, open source and open hardware/technology resources.

Coaching, mentoring or incubation of start-ups

jHUB connects media producers and young entrepreneurs of South Sudan with great hands-on trainers, coaches and mentors with professional experience both in their industry and innovative use of technology or ICT literacy in general.

Networking

Networking comprises the heart of the activities of jHUB. We share our extensive network of entrepreneurs, managers of established companies, investors, business experts and leading universities both on a national and international level.

Events organisation

The experience gained from the South Sudan #peacehackcamp not only inspired and empowered the organisers, but opened up a wide variety of opportunities to the people of South Sudan. We believe in events as a valuable method to unlock the door of opportunities for youths, community groups and students in South Sudan.



jHUB – sowing seeds of an innovation community



THE BIRTH OF A MEDIA AND TECHNOLOGY HUB IN JUBA

By Markos Lemma
Co-founder @iceaddis
<https://medium.com/@eweket>

South Sudan the world's youngest nation, and neighbour to my home country of Ethiopia, is full of promise and I was thrilled to have six days to discover the city of Juba. Lagu Samuel met me at the airport; I met Lagu in Berlin in 2013 at re:publica which is the world's largest digital culture conference in Berlin. So when he barely recognised me at the airport, I wasn't surprised. That trip in 2013 was Lagu's first trip to Europe and nothing could prepare him for the Deutsch Labor day festivities on May 1st—his birthday. My first trip to Berlin was on May 1st, a year earlier and so not only did I understand his shock, I also had a similar experience.

Our first stop from the airport was an Ethiopian restaurant on a dirt road in Juba. The Habesha waitress spoke Amharic and if not for the temperatures outside, I might as well have been back in Addis—I later learned that a significant number of restaurants in Juba are owned by Ethiopians. This was ironic given that I heard from Juba for the first time from a Canadian friend, Stephen Kovats. Lagu often referred to Stephen as the man who beats the drum when it comes to innovative ventures in South Sudan; as a big believer in open society and

open source, his company r0g_Agency has been spearheading the promotion of open culture in South Sudan and beyond for over 3 years.

That first lunch in Juba with Stephen and Lagu allowed us to reminisce on how many times we talked about South Sudan; it was fitting that I was finally visiting and ready to meet Lagu's team to support them to set up their new innovation hub.

Located one hour away from the airport, jHUB is Juba's open knowledge and innovation hub and is led by a team of young visionaries like Lagu. Lagu is no typical hub guy: he is studying medicine, learned how to use a computer from his employee and is the founder of KAPITAL movie industry cooperation, the organisation behind jHUB.

During my stay in Juba, I worked with the KAPITAL core team and the first hub community members to define jHUB and set up a work-plan. Stephen and Lagu are organizing the #peacehackcamp, the first activity of jHUB taking place November 30 to December 2, 2015.

You would never understand the depth of the word "peace" until you visit Juba. It's on everyone's tongues: people talk about "peaceful competitors", "peace hackathons" and "hand

wash for peace". You do everything for peace in South Sudan. You live for peace. It is indeed true that when people live in the absence of peace, they think about nothing but peace. Working with Lagu and Stephen, I felt confident that their small community innovation hub would contribute to peace in Juba. The entrepreneurial eco-system in Juba is not different from what we have in Addis Ababa which is why at iceaddis we are pushing to make things easier for tech startups in Ethiopia, despite the various challenges we face everyday. When Stephen invited me to come to jHUB I knew that I wouldn't be surprised by Juba's eco-system. As the youngest nation everything is in its infancy and yet, it holds untapped potential because of its active youth.

CHANGING THE NARRATIVE

Emmanuel Mbisimo Victoris, 23, is one of the students at Kapital and the first member of the jHUB community. Emmanuel studied information technology and like many South Sudanese I met, he lived and studied in Uganda. He spoke a lot about building his own company, even while the whole country mostly thinks and talks about peace.

I asked Emmanuel why he wanted to come back from Uganda. He told me his father didn't want him to return to South Sudan but he said, "this is my country, my home". Emmanuel and his team founded a tech company that specializes in software development and hardware troubleshooting. It is definitely not easy to run a startup company in Juba: there is limited support for skill development, the competition is not also well regulated, and with most companies based in Kenya, Ethiopia and Uganda dominating the business scene, there is little for South Sudanese youth (even though they are the ones who shall stay there for the good and bad of times). The state doesn't provide power. Everyone in Juba needs to find their own means to meet their power needs; Emmanuel pays 500 SS pounds (\$85USD) for the shared generator for his small company and is planning to consider solar energy given that state-provided electric power is out of the question for now. That is one of the reasons why jHUB is vital to provide a space for young entrepreneurs with access to Internet, electricity, a network and a working space. Emmanuel told me that all his friends want to work for the UN or the government. He saw the potential of the hub to change mind-



*Emmanuel Mbisimo @GvmbADevo -
pioneer @jHUB_Juba*

sets and promote entrepreneurship; he believes jHUB shall bring and connect people together regardless of gender or tribe to share ideas that promote peace and unity.

Another champion in this tech community is Jaiksana Amerada Jose. Jaiksana's story isn't different from Emmanuel's: he told me: "I believe in jHUB because it will provide an indescribable wealth of resources, information and knowledge; its introduction will enable students to access information on whatever subject they want, which would in turn earn them skills to use in the nearest future to pursue a co-related career" Jaiksana Amerada Jose is a student now, but as a regular member already organising events at jHUB to support his peers.

THE WAY FORWARD

jHUB just started operations and has more than fifteen (15) pioneer members from the local community. Their first big task is to organize #peacehackcamp: an intensive media literacy and inter-communal peace-building project that taps into open source tools and media for their ability to promote collaborative enterprise in learning and innovation; foster mutually beneficial interaction among communities; enable shared ownership and effectively distribute gained knowledge.

#peacehackcamp is just the beginning. "Her Geekyness" Mugethi Gitau (a friend and a creative techie from Nairobi) arrived in

Juba shortly after I left for a follow-up training course. Mugethi carried out a word-map exercise with founding jHUB members: she said, "a word map of the responses I got from the founding community of jHUB in Juba about what jHUB means to them. Clearly people and ideas emerged first: Community and innovation! I'd say we are headed the right way!"

The challenges of establishing a technology eco-system in South Sudan are far from over but the opportunity, talent-base and passion of people like Lagu and his team will put South Sudan on the innovation and technology map. As for myself, I am looking forward to the honor of being part of jHUB's journey to transform South Sudan.



Jaiksana Jose @JambuJack – pioneer@jHUB_Juba

#peacehackcampers flashing the human space/time logo



THE jHUB APPROACH TO COMMUNITY-BASED MEDIA EDUCATION

The approach described in this document is in part based on the P2PU Learning Circles Model, contextually adapted to the particular circumstances of the jHUB community. It is jHUB's aim to facilitate regular trainings with in-house experts and to invite external mentors from other organisations in South Sudan and abroad. Due to temporary limitations in resources and domain expertise, much learning at jHUB will, especially in these initial phases, be bottom-up and self-organised by the community. jHUB regards learning as a lifelong process which has to be adapted in response to continuously emerging learning orientations and pragmatically shifting skill-demands. Peer-to-peer learning and mentorship is expected to play a prominent pedagogical role, as will the creative application of networked technology and the adoption of open educational resources (OER).

jHUB strives to make maximum use of the vast amount of resources and opportunities offered through an Internet connection. Still, it is difficult both to figure out where to search for the right learning materials and gather the initiative and self-discipline to acquire complex skills on your own. Therefore, jHUB relies on the

following strategies and pointers for efficient communal learning.

OPEN EDUCATIONAL RESOURCES AND BLENDED LEARNING

Open Educational Resources (OER) are digital learning materials available online for free use, that range in complexity and purpose from full multimedia-based online course-programmes for self-paced learning, to reference sources like technical and textbook eBooks, instructional videos or online encyclopedia and dedicated interactive tools or simple media-files like illustrations, diagrams or podcasts that can be applied in a broader learning context.

So, OER can be applied as learning content in a variety of ways for self-paced learning. Because online learning is difficult to complete independently, jHUB trainings are mostly in the format of "Blended Learning", which means that digital resources and tools are applied through a combination of instructional methods and mixed together with face-to-face meetings and training activities at the physical hub-space. jHUB uses the online and digital media and tools to complement and reinforce the face-to-face learning sessions, when it makes sense.

SELF FACILITATED PEER LEARNING AND jHUB VIRTUAL MENTORING NETWORK

Peer learning refers to the mutual learning from each other within a peer-group. By convening a group of learners who are interested in a similar topic, you've got the basis for an open, collaborative learning environment that has the potential to be the support system many learners need. Peer learning can create a rich learning environment in which everyone simultaneously teaches and learns, acts and observes, speaks and listens. This exposes learners of all stripes and levels of experience to new perspectives, provides an opportunity to develop useful professional networks, social skills, and allows individuals to achieve something greater than they could on their own.

An additional important resource of the jHUB is its virtual mentoring network, providing community members access to a wide variety of expertise from around the world. The jHUB virtual mentoring network currently consists of a list of confirmed experts in different fields that you can contact to ask for advice or discuss certain topics with.

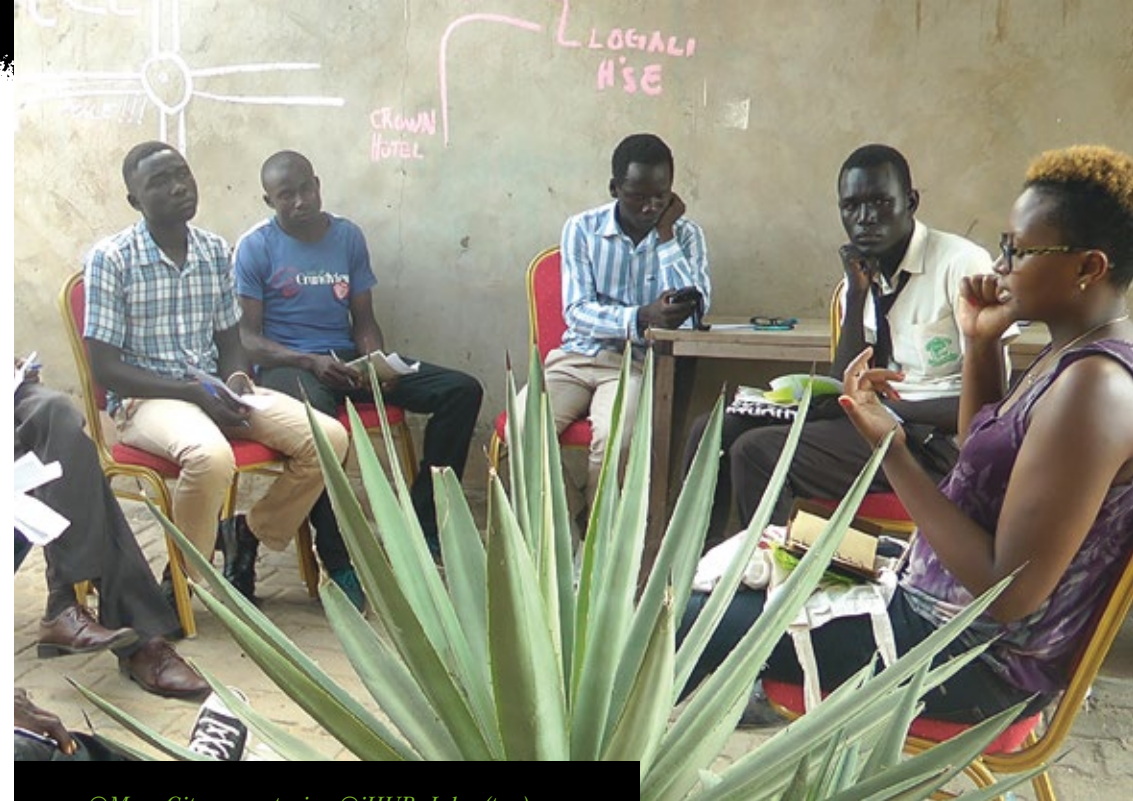
jHUB PEER-LEARNING CIRCLES

If you have identified a topic you want to learn more about – out of curiosity or if you need to acquire specific skill-sets for your new project – then you can start a jHUB Peer-Learning Cir-

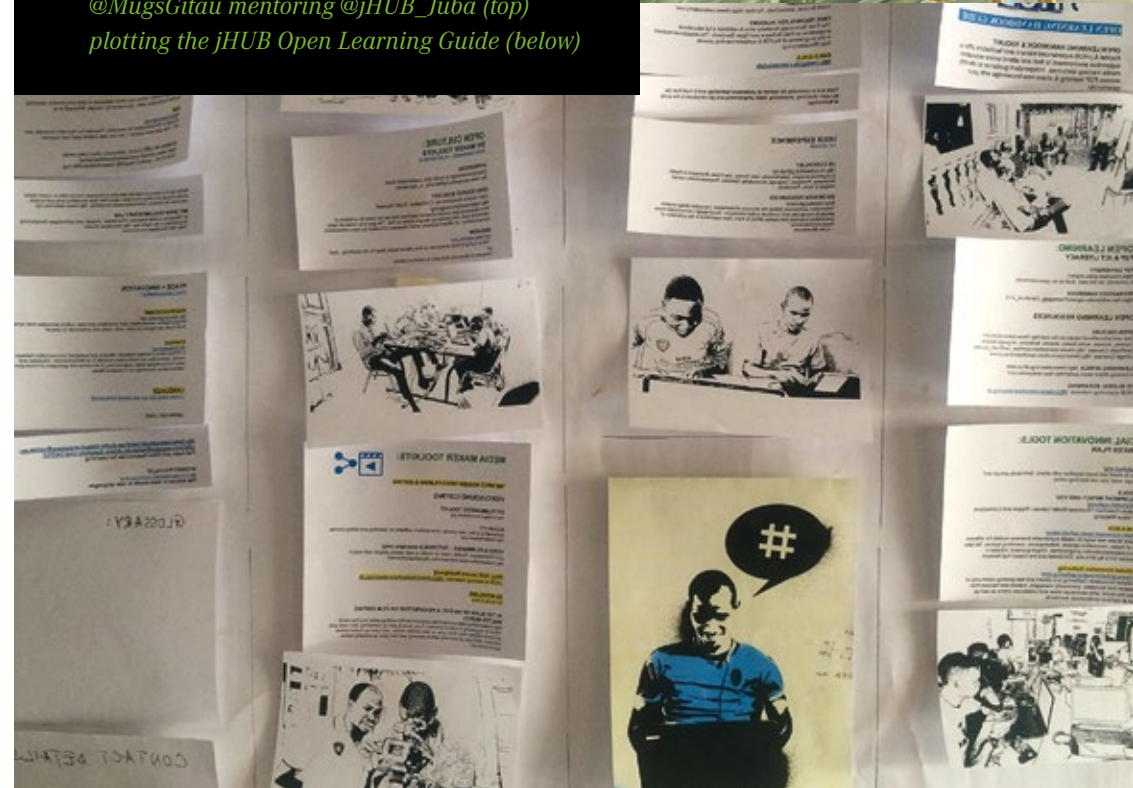
cle and agree to work with other like-minded peers to complete missing areas in your skills together.

jHUB Peer-Learning Circles are free, lightly-facilitated study groups for learners who want to learn a specific topic or skill together and in person with the use of digital learning resources. The facilitator is present to help support the learning experience, but he or she is not necessarily an expert in the content to be covered. Rather, the expertise resides in the online resources, the group of peer learners and the virtual jHUB mentoring network. What jHUB Learning Circles offer is a support group for learning, access to new studying strategies, dedicated weekly study time and space, a network of co-learners, and the ability to learn independently in an informal environment, without the external pressures of an institutional framework.

Peer Learning Circles help combining group activities with course content. These activities will help learners develop a learning community, set and achieve attainable goals, develop new learning strategies, connect the work to their goals, and reflect and improve upon the Learning model, while instilling a positive academic mindset in the participants.



*@MugsGitau mentoring @jHUB_Juba (top)
plotting the jHUB Open Learning Guide (below)*



JHUB COMMUNITY CHARTER

- 1 - Shared ownership of ideas in the community
- 2 - Active participation
- 3 - Cross-cultural and inclusive
- 4 - Promoting peer-work

Handwritten signatures and scribbles, including a large signature that appears to be 'Gemma'.

First Community members
 Signature Oct 17, 2015 in Juba

Handwritten signatures and scribbles at the bottom of the page, including names like 'Jill', 'Anna', and 'Abdul'.

ESTABLISHING SHARED VALUES

The jHUB Community Charter is the group's leading shared-values constitution, signed by 14 participants of the Step-Up Juba Media Lab seminar on October 17, 2015. Comprised of KAPITAL 'core-team' members and student graduates of KAPITAL's video and IT workshops, this group declared themselves the "first community members".

Fine tuned from over 20 declared values held dear to individual members, ranging from 'showing up on time for meetings' to 'turning down the ring-tone when listening to

others' four unilateral key values emerged in consensus with all members present.

What is a seemingly simple 'declaration' of values, defining the essence of these actions will be the challenge against which the nascent jHUB will also measure itself in relation to the outside world. In the deeply rooted conflict and traumatised cultural landscape that makes up South Sudan these are radical values, that if implemented can act as an open culture model for ICT and peacebuilding across the country.

«It's a place to support the community of South Sudan to discover more talents from the community and to make South Sudan a peaceful country. To send peace through innovations, technology and creativity and thinking out of the box and to unite people, not only from South Sudan but from around the world.» *Abdumalik Adam, Hardware maker volunteer @ KAPITAL*

«I feel it is very, very important also to empower women, if jHUB exists, because women have the potential, if one woman is actually taught how to do something, she will be looking at two things - at herself and the family and also include the neighbours. There's a common saying that if you educate a woman you educate an entire nation. I think, it is very, very important to work hand in hand with women as far as their empowerment is concerned.» *Akwero Lily Rose, PR manager, KAPITAL*

«jHUB is a place where everyone can meet and share ideas. If we come all together and we share our ideas, then we can really do something great, because me alone, I can not do something. I am a pioneer in jHUB, although I didn't go to school, but what I feel deep inside my heart I can share with my friends, all my ideas, so I really want to be in jHUB and learn a lot of things and develop new things that I know will help me in my future. And what I have in my heart, I want to share with people, and also those things that I don't know, if we come into a team, I will learn more, I will learn by doing. If I am in a group, then I keep on developing.» *Galea Jeniffer, student @ KAPITAL*



«It's amazing, beyond what I imagined or expected, the peacehack-camp is huge, especially the different rooms that have been set up to create different things, like the creation of solar power, and it's only the beginning. This will really go a long way in empowering these young people who are attending to create local solutions in their communities. Some of us already working in this area of peacebuilding can be able to tap this resource that is now being created through this initiative, taking it to local communities that we are working in. For us this is an important way of engaging these young people to become agents of peace, because what we have seen throughout our research, through our work is that the more these young kids are engaged, the more their mind is focused in development activities and the less they will be engaged in violence in their communities and to a larger extent in South Sudan, so this will be an important and amazing initiative in this country when this happens.» *Dagu David, Youth Peacemaker Network, UNESCO/WPDI*



«I was very happy to be part of the solar charger workshop at the peacehackcamp and I have seen a lot of young people also appreciating the same workshop. People were enjoying, people were laughing, people were interacting and this is the main basis of peace and reconciliation, you know, a small activity that can be able to make people interact and know each other more, instead of just sitting in a classroom on your own and writing, here we are doing works in groups, and we are benefiting from that.» *Ras Lojuron Jaden, founder @ Aggrey Jaden Cultural Centre, Juba*



«When I was in Bar el Ghazal state, I was thinking that there were no youth in South Sudan who were really curious about technology, but when I came it was really a great surprise for me when I found many, many young people who are passionate, who are really hoping that we could take South Sudan to another level. Not only to focus on the war, the effects which are facing us, and the challenges, but they are having the passion in creating their own ideas and taking them to another level.» *Viola Abango, Lecturer, Bahr el Ghazal University, Wau*





#peacehackcamp
juba Nov 30 - Dec 2, 2015

*Original #peacehackcamp logo design
by Olimba Edwards*

THINK DIFFERENT. TAKE ACTION. HACK FOR PEACE!

As part of Step-Up Juba Media Lab activities the planned 'innovation barcamp' evolved through seminars 1 and 2 into a series of skills development and East African regional networking events under the umbrella of the #PeaceHackCamp conceived by KAPITAL Movie (KMIC). As a significant contributing factor in promoting open expression, the Kapital/jHUB team believe that with the ongoing involvement from people of all sectors of society, specifically on the community level, such activities can also promote tangible peace in South Sudan.

The #PeaceHackCamp became the first international Open ICT4D (ICT for Development), media and peacebuilding event in South Sudan, at the same time highlighting the first public manifestation of jHUB as a driver of local media development action. Presented in collaboration with the Central Equatoria Women's Union (CEWU, South Sudan) and the Aggrey Jaden Cultural Center (South Sudan) #PeaceHackCamp featured over 10 Step-Up Juba Media Lab related workshops,

discussions and meet-ups alongside a peace-builders code-a-thon, the use of social media to mitigate violence and hate speech, a peacebuilding round table and KAPITAL Movie video and cinematography training sessions.

A unique opportunity for people in South Sudan to network with peer innovation communities from other African innovation labs, experience hands-on knowledge sharing and exchange good practices from local peacebuilding initiatives. The event showcased IT and media literacy projects for inter-communal peacebuilding across South Sudan, DIY hardware making and a peacebuilder app code-a-thon. Cultural sessions included music and dance to round up an inspirational 3 days.

STEP-UP JUBA MEDIA LAB @ #PEACEHACKCAMP 2015



Code4all What is coding? For youths, educators and everyone!

Scratch/ Afrimakers/Sound with
Lual Michael Mayen (Juba), peace
coders, Ahmed Bastawy (icealex,
Egypt) and Daryl Lukas (MakerHut,
Zambia) and Juba University Open
ICT advocates Eva Yayi Mawa and
Yine Yenji (Juba)



DIY Mobile Solar Charger Workshop

In this two day workshop, Timm
Wille (Open Source Ecology, Berlin)
introduced how anybody can build
their own energy source, linking
these to concepts of open source and
resource up-cycling. He coached four
groups, with hands-on instruction us-
ing practical tools, resulting in four
functioning 5V mobile solar chargers
being built.



Open ICT in Agriculture (ICT4ag)

with Mugethi Gitau (Garage/iHUB
Nairobi) features the use of ojoVoz
on mobile phones to create Commu-
nity Knowledge Bases. Introduced
from the practice in the field by Sai-
di Suleyman Hamza of the Sauti ya
Wakulima (Voice of Farmers) project,
Bagamoyo County, Tanzania. Linking
to the Wau-based Planting for Peace
project on improving food security
through strengthened community
interaction (introduced by researcher
William Deng Koor).



STEP-UP JUBA MEDIA LAB @ #PEACEHACKCAMP 2015



Open Source, ICT and Afro- Innovation? What is Open Source?

Free Ubuntu operating systems,
Raspberry Pi and other open ICTs and
Afro-Innovation with Sheila Birgen
(mhub, Nairobi) and Evans Campbell
(iHUB Nairobi).



Holistic Women's Empowerment

3 day workshop on IT, peacebuilding
and economic empowerment for wom-
en of all ages by social entrepreneur
Kudzai M. Mubaiwa (Zimbabwe), in
collaboration with the Central Equa-
torial Women Union (CEWU).



OER – Open Educational Resources

Free Mobile and Open ICTs in edu-
cation development and teacher
training with Viola Abango (Bahr el
Ghazal University, Wau) and Martin
Restrepo (Medellin, Colombia). An
introduction to the Wikipedia Peace
Agents initiative on Learning, Lit-
eracy and Collaboration using the
world's biggest open knowledge re-
source.



STEP-UP JUBA MEDIA LAB @ #PEACEHACKCAMP 2015

Further events #peacehackcamp activities curated and presented by Kapital Movie and its program partners included:



South Sudan PEACE CODE-A-THON curated by Eng-Lual Michael Mayen

South Sudanese coders harnessing ICTs for Peacebuilding solutions for all levels of mobile phone users, in all languages and across communities. As an outcome the groups worked together to produce an application to map safe or violent areas, based on the popular open source Ushahidi platform. (<https://www.usahidi.com/>) The URL of the resulting crowd mapping application: [wenusalaam15.crowdmap.com](https://www.wenusalaam15.crowdmap.com)



Meet and Greet Networking Evenings at Aggrey Jaden Cultural Center

featuring 'Drum4Peace' and guest performances, a South Sudan Innovators PechaKucha and discussions on cementing an international mentorship network.



Combating Social Media and Online Violence in South Sudan

#DefyHateNow: How to use Facebook and other social media for Peace Building by Lokuto Bismark (CEPO - Community Empowerment for Progress Organisation, Juba)



Open Innovation

Building and making almost anything with South Sudanese Innovators including George Mel (DIY aeronautics) and Santino Wol (remote electronics and DIY robotics).



STEP-UP JUBA MEDIA LAB @ #PEACEHACKCAMP 2015



#PeaceHackCamp – BUILDING A TECHNOLOGY AND INNOVATION COMMUNITY IN SOUTH SUDAN

By Rafiq Copeland
media initiatives manager, Internews South Sudan
<https://medium.com/@rafiqcopeland>

To many observers South Sudan might seem like a strange place for a technology event. The four-year-old nation is one of the least developed on earth and, since 2013, an ongoing civil war has brought with it economic chaos, widespread displacement of people, and increased food insecurity. In South Sudan, “innovating” would perhaps seem to be less of a priority than simply surviving the many challenges faced daily. In times of crisis, however, the two are often linked. And the focus of the recent #PeaceHackCamp was firmly on finding new, creative, South Sudanese solutions to South Sudan’s problems.

The three day #PeaceHackCamp, held at the beginning of December, was South Sudan’s first “hackathon,” although it was much more than that as well. The event brought together several hundred participants to concurrent sessions, including a mix of practical workshops, “codathons,” panel discussions and networking opportunities held across different venues in Juba. As befits a country where only 9% of people have ever had access to the Internet, the emphasis of the hack was not just on cod-

ing and programming, but included a mixture of high and low tech efforts at solving real world problems. Sessions ranged from working towards sustainable agriculture, or “planting for peace,” to supporting youth entrepreneurship, and from designing mobile applications to an introduction to Wikipedia. A morning talking about access to markets might easily be followed by an afternoon of soldering a solar powered phone charger.

In a country with no electricity grid, solar power plays an increasingly vital role. #PeaceHackCamp participants were able to build solar powered phone chargers.

The #PeaceHackCamp was an initiative of KAPITAL Movie Industry Corporation (KMIC), a local South Sudanese organisation founded on the principle of peer-to-peer learning.

“We were students at the university, but the campus was frequently shut down for long periods due to strikes,” says Lagu Stephen, founder of KMIC. “After a while, we decided we needed to keep busy and just teach ourselves.” They developed a passion for open source education resources, which alongside video and ICT activism became the driving force behind the organisation.

At the beginning of 2015, KMIC was operating without an office, but still managing to conduct workshops and trainings from Lagu’s cramped single room residence. There was no shortage of young people willing to learn—and to teach—even if the resources were not there. “We wanted a space where we could meet and practice the sorts of things we were learning about online,” says Lagu.

After successfully applying to Internews’ South Sudan Small Grants program, these plans were able to become a reality. An office was established, including facilities for workshops and training, and the #PeaceHackCamp began to take shape. During the course of 2015, workshops were conducted on ICT activism and video production, and a great deal of planning and networking took place.

The level of planning involved can be seen just from the attendance list, which included participants not only from across South Sudan, but from around the world. In collaboration with KMIC’s open culture and social innovation partners r0g_agency and the IceHub network, visitors travelled from Egypt, Ethiopia, Kenya, Zimba-

bwe, Norway, Germany, Rwanda, Zambia, and even as far away as Colombia, making the #PeaceHackCamp a truly international event. Many of the foreign visitors represented tech spaces and innovation labs, such as the iHub in Nairobi, the BongoHive in Lusaka or IceAddis in Addis Ababa, and brought with them a range of skills, ideas and experiences to share with their South Sudanese counterparts.

The #PeaceHackCamp was an international event, with participants and presenters coming to Juba from around Africa and the world. The huge level of interest and enthusiasm demonstrated during the #PeaceHackCamp makes one thing clear—despite the enormous challenges faced, there is an emerging tech community in South Sudan. In fact, there is a palpable sense of urgency about it. As Lagu points out, “If we wait until everyone in this country is connected, it will be too late. The time to think different is now. The time to take action is now!”

There is evidence to support this feeling of being part of the zeitgeist. In 2013, just 3% of South Sudanese had ever accessed the Internet. In less than two years, by early 2015, despite the outbreak of civil war and the



#peacehackcamper Kudzai Mubaiwa @kumub charges forth with Holistic Women's Empowerment

threat of economic collapse, this number had tripled. The figures may still seem incredibly small, but in South Sudan's starved media landscape, the small number of weekly Internet users (7%) is rapidly gaining on the weekly reach of more established media such as newspapers (10%) and television (13%). As mobile phone penetration continues to grow, online resources will no doubt play an increasing role in how South Sudanese access and communicate information.

A wealth of ideas and plans were stimulated during the #PeaceHackCamp and many valuable connections were formed as ad-hoc meetings and sessions developed. One particularly fruitful discussion was held around the development of the "jHUB," a planned "open tech-space" for Juba, where developers and entrepreneurs will be able to meet and

access the Internet and other resources.

Meanwhile, the #PeaceHackCamp concept will soon be exported from South Sudan to Colombia, with a similar event planned in that nation in 2016. Interest has also been expressed in holding a sister event in Afghanistan. The #PeaceHackCamp may have a claim to be South Sudan's first tech export. If the participants have their way, it will be the first of many.

Internews support to KMIC through the Small Grants program was part of the US-AID i-STREAM project, Strengthening Independent Media in South Sudan. jHUB, South Sudan's first open knowledge and innovation space, forms part of KMIC's "Step-Up Juba Media Lab" project, supported by the German Federal Ministry of Economic Cooperation and Development (BMZ).

«When you are doing something, its always good, because your brain will be busy, you stay together with people who you don't know their tribe or whatever, you are just all together, but you still work hard. So it was really a big thing in my lifetime for me.» *John Bior Ajang, student @ KAPITAL*

«I have learned a lot; entrepreneurship, how to create the society, how to develop a community, a lot of things. If I were to write notes, I would have written a lot, but now I know that what I have captured in my brain is enough and I believe, moving from here, I will have to go educate other friends, brothers, sisters, actually, it has been good.» *Santino Manut, radio journalist, Kuajok, South Sudan*



jHUB OPEN LEARNING GUIDE

jHUB creates an open knowledge and innovation space for South Sudanese youth to connect and collaborate, while providing an accessible resource centre for creative learning and exploration. Adopting an ‘open system’ approach, nurturing togetherness, socialisation, collaborative enterprise using hands-on, virtual, and e-learning digital environments as a means to understand South Sudan’s diverse culture and structure.

jHUB’s capacity building and development elements are oriented towards open culture and are designed to take advantage of the wide range and accessibility of open source tools. These platforms and methodologies include extensive use and promotion of “Open Education Resources” (OERs).

The Blended Learning approach combines on-location seminars with preparation and post-processing, as well as moderated self-learning phases in a virtual learning platform, using a variety of digital media and tools. In the context of South Sudan, where most people do not have access to the Internet at home, jHUB provides both the space for on-location seminars, for groups of learners to meet and prepare or post-process the seminars, and for learners to conduct their self-learning.

Knowledge about and use of open source software and open source hardware both play an important role for jHUB. The members have learned how to upcycle used hardware components to build their own solar chargers, which they now use to charge cell phones, cameras and other electronic equipment, independent of the power supply of the fuel-powered generator.

The Open Learning Guide is an outcome of “Step Juba Media Lab” project and provides a specific access to a large variety of online resources like open learning introductions, business and social innovation tools, coding and programming, but also animation, modeling and editing. The guide also includes resources for media creation and digital story telling.

OPEN LEARNING INTRODUCTION (2P) & ICT LITERACY

Open Learning
Knowledge Management System that uses open online learning communities.

Peer to Peer Alternatives

JHubook_V1.0

“Peer learning”. A range of techniques for self-motivated learning and develop stronger communities and collaborations.

FOU

an open community.

open and free knowledge resource.



PEACE + INNOVATION

ICT4PEACE
ict4peace.org
ICT4Peace facilitates improved, effective and sustained communication between communities involved in conflict prevention, mediation and peace building, through better understanding Information Communications Technology (ICT) & media.

PEACEHACKCAMP
peacehackcamp.net
Bringing together peacebuilders, tech innovators and open culture advocates from across South Sudan and beyond to hack, code, make and collaborate for peace!

OPEN EDUCATION RESOURCES

Each and every

Second



OPEN EDUCATION RESOURCES

Summary in the digital age.

Active participants on the Web, local and economic opportunity.

Web-based storytelling.



eLEARNING RESOURCES

ALISON ONLINE TRAINING
alison.com
Free, high-quality online education resources to help you develop essential, certified workplace skills. Sponsored by Google, Microsoft et al.

EDX

edx.org

Access to free education for everyone. Harvard University, MIT & submit your own courses!

eLEARNING AFRICA

elearning-africa.com

Perspectives on ICT, Education and Development in Africa

eLearning Africa news portal e-newsportal.com

KHAN ACADEMY

khanacademy.org

“You can learn anything.” Global Classroom offers a free world class education for anyone, anywhere. Personalised learning dashboard to study at your own pace in and outside of the classroom. Maths, science, computer programming, art history, economics, and more.

CRASH COURSE

youtube.com/user/krashcourse/playlists

Youtube channel with courses in Anatomy & Physiology, Astronomy, World History, Biology, Literature, Ecology, Economics, Chemistry, Psychology in short episodes.

OPEN CULTURE

openculture.com/free_certificate_courses

Courses, movies, audio books, ebooks, textbooks, language lessons.

SCHOOL OF LIFE

youtube.com/user/schooloflifechannel

Essays, philosophy, short video series.

CODING AND PROGRAMMING

CODE ACADEMY

codecademy.com

Learn to code, interactively. For free.

FREE TECHNOLOGY ACADEMY

ftacademy.org

Educational programme on Free Software and Open Standards.

FUTURE LEARN

futurelearn.com/courses/collections/make-it-digital

British MOOC initiative, related to Open University. Multi-topic, digital storytelling. Learn to code and get creative with programming and digital technology.

RAILS GIRLS

railsgirls.com/materials

Tools and a community for women to understand technology and build their ideas. Learn sketching, prototyping, basic programming, and the potential of technology.

OPEN CULTURE LEARN TO CODE

openculture.com/2016/03/learn-how-to-code-for-free-a-diy-guide-to-r-learning.html

DIY Guide: learn how to code for free, using online courses, instructional videos, YouTube channels, textbooks



BUSINESS

DEVELOPMENT
dynamix.org/you
Innovation Flow

IGIG GLOBAL INNOVATION
globalinnovation.org
A vibrant and growing community of makers and hackers around the world.

HUB IN A BOX
hubinabox.com
Create sustainable makerspaces, co-working spaces, and more. December 2015

JHUB
jhub.org
Juba's Open Knowledge Hub. A place for learning and innovation.

LIBREOFFICE
libreoffice.org
Free & Open Source office suite for free, let's make it better.

OPEN SOURCE
opensource.com
Find the best open source software for your business.

OPENOFFICE
openoffice.org
Open Source office suite for free, let's make it better.

ANIMATION

AUTODESK
autodesk.com
Comprehensive software solutions for architecture, engineering and construction.

AUDACITY
audacityteam.org
Free, open source digital audio editor.

BLENDER
blender.org
3D animation, modeling, rendering, and compositing software.

PIXAR IN A BOX
pixar.com
Khan Academy Pixar Animation Studios school are used in Pixar's films.

VIDEO & FILM
videomadeeasy.com
VFX, 3D Live, and more.

VLC MEDIA CENTER
videolan.org
Free, open source multimedia player and framework.

VIDEO COMPOSER
videocomposer.com
A collaborative motion design tool.



PEOPLE AND ACTIVISTS

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Clemens Lerche (Berlin), Ahmed Bastawi (Alexandria), Markos Lemma (Addis Ababa), Mugethi Gitau (Nairobi), Stephen Kovats (Berlin), Rafiq Copeland (Juba), Timm Wille (Berlin), Sheilah Birgen (Nairobi), Evans Campbell (Nairobi), Eva Yayi Mawa (Juba), Eng-Lual Michael Mayen (Juba), Kudzai M. Mubaiwa (Harare), Viola Abango (Wau), Daryl Lukas (Lusaka), Rayna Stamboliyska (Paris), Victoria Wenzelmann (Berlin), Jodi Rose (Berlin)

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INSTITUTIONAL PARTNERS:

KAPITAL is a Juba based grass-roots film, art, design, and media training initiative. The Virtual Academy is a key activity of the KAPITAL Movie collective, an independent group of young designers, filmmakers, IT professionals and artists.

icebauhaus is the German partner in the international icehubs-network of green-tech and social innovation hubs and is geared towards a bottom-up strategy that combines both local and international trends with state-of-the-art technological developments. **r0g_agency** for open culture and critical transformation focuses on actual practice and projects embedded in communities. r0g_agency's work taps into the power and breadth of contemporary free and public domain resources including open educational resources [OERs], free open source software [FOSS] and hardware, open data and open knowledge repositories.

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