EVERYONE MEANS EVERYONE

Civics, Culture, and the Future of the

THE STACK

Michael Peter Edson
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EVERYONE MEANS EVERYONE

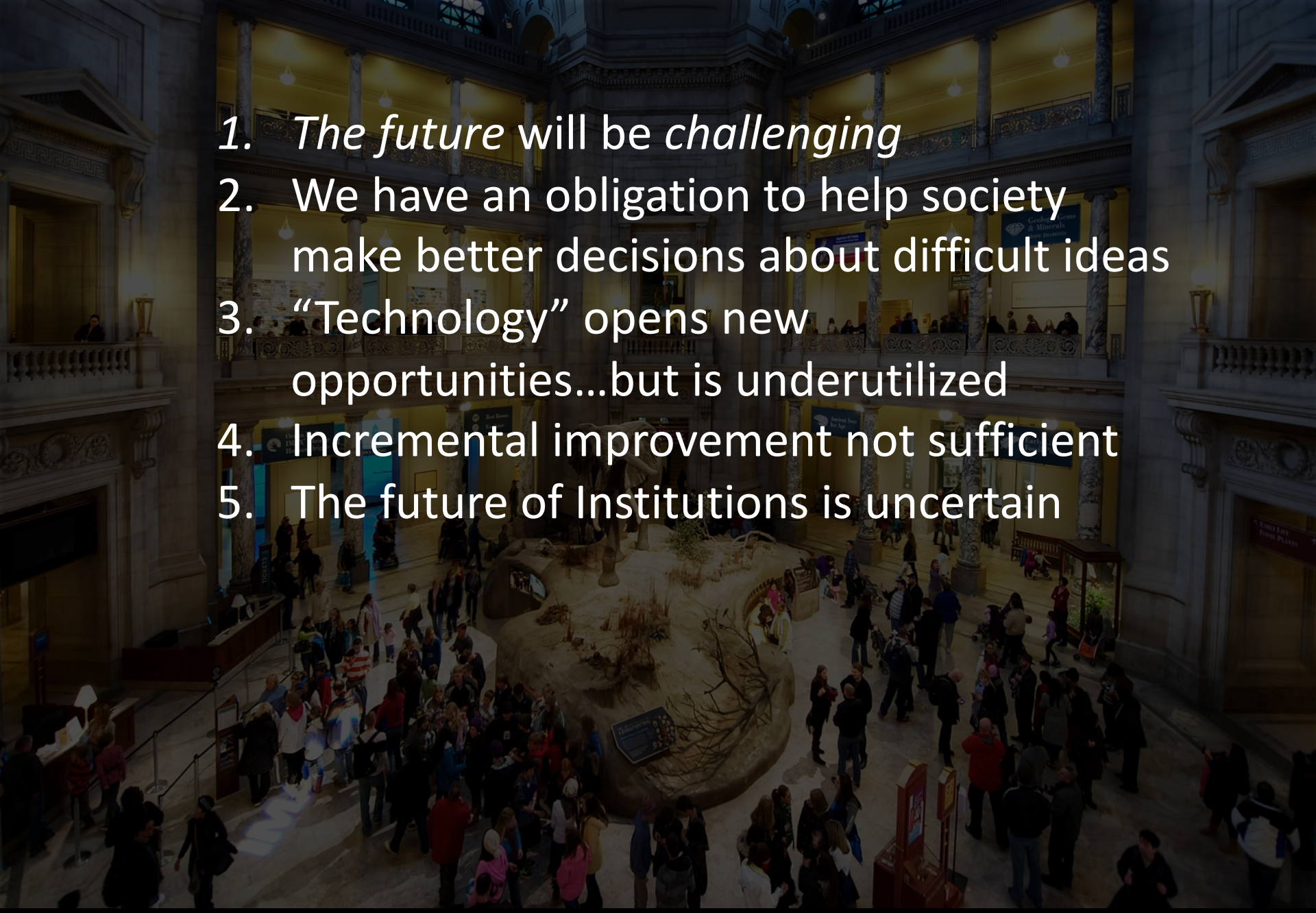
Everyone has the right
freely to participate
in the cultural life of the
community,
to enjoy the arts
and to share in scientific
advancement and its benefits.

Article 27 (1)
United Nations Universal Declaration of
Human Rights
1948

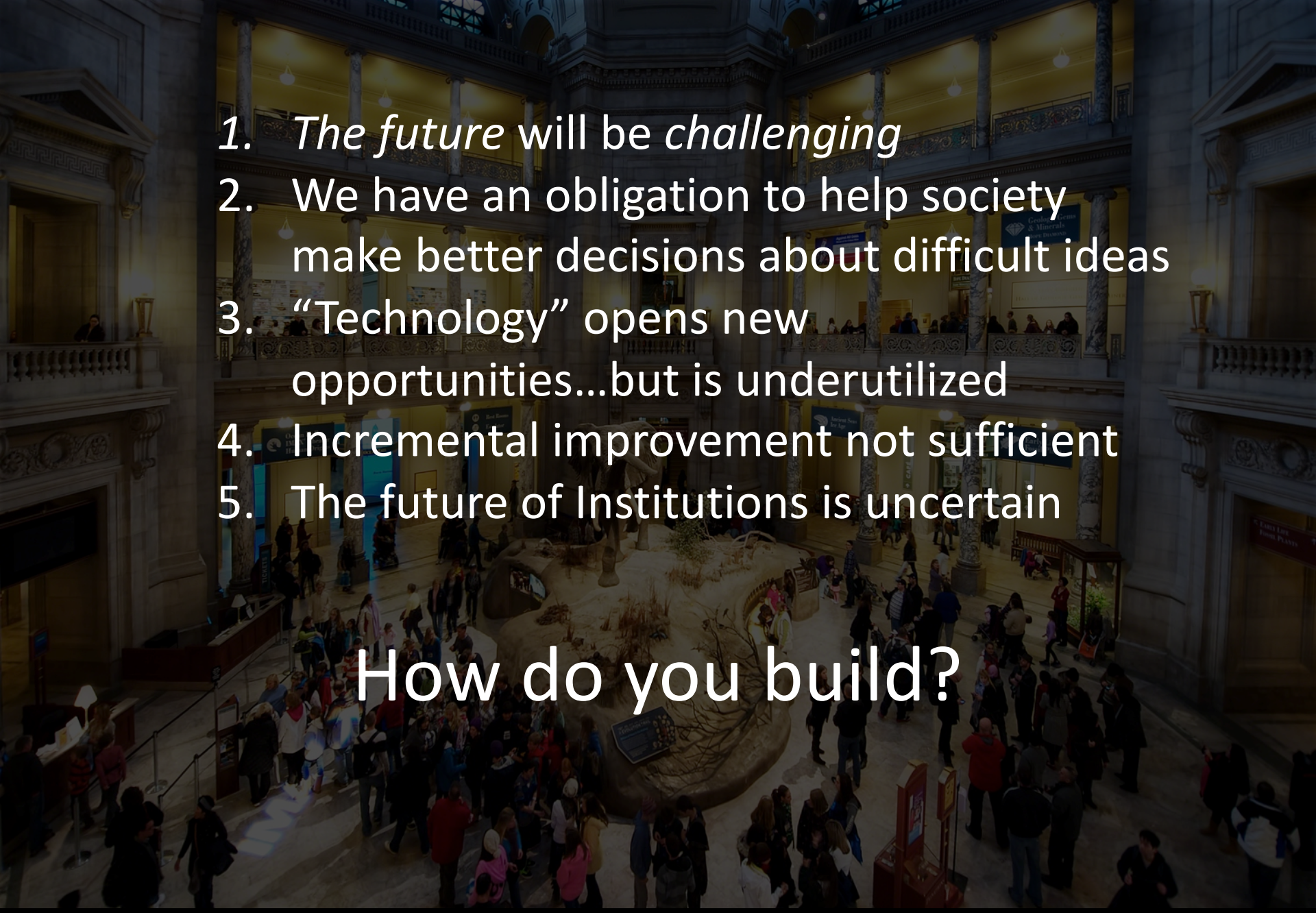
“I think it’s incredibly important that…every single one of us somehow has a way to get to the table where decisions are taken.”
Michael Møller
Under-Secretary-General of the United Nations

UN LIVE
MUSEUM FOR HUMANITY

KENNETH E. BEHRING FAMILY ROTUNDA
Ocean Hall
IMAX Theater
Human Origins
Rest Rooms
Escalator
TICKETS
Geology, Gems & Minerals
Hope Diamond
Ancient Seas
Ice Age
Early Life
Fossil Plants
CAFE
CAFE
EARLY LIFE
FOSSIL PLANTS



1. *The future* will be *challenging*
2. We have an obligation to help society make better decisions about difficult ideas
3. “Technology” opens new opportunities…but is underutilized
4. Incremental improvement not sufficient
5. The future of Institutions is uncertain



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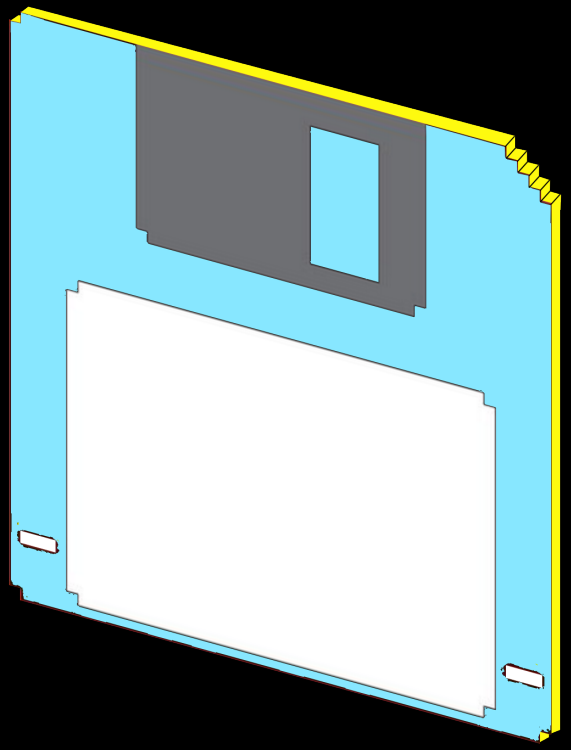
How do you build?



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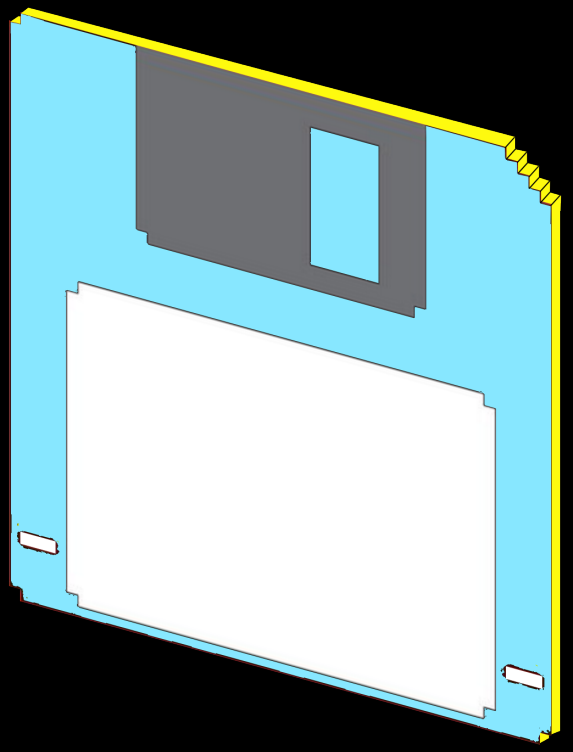


Computer

Printer

Network

Drivers

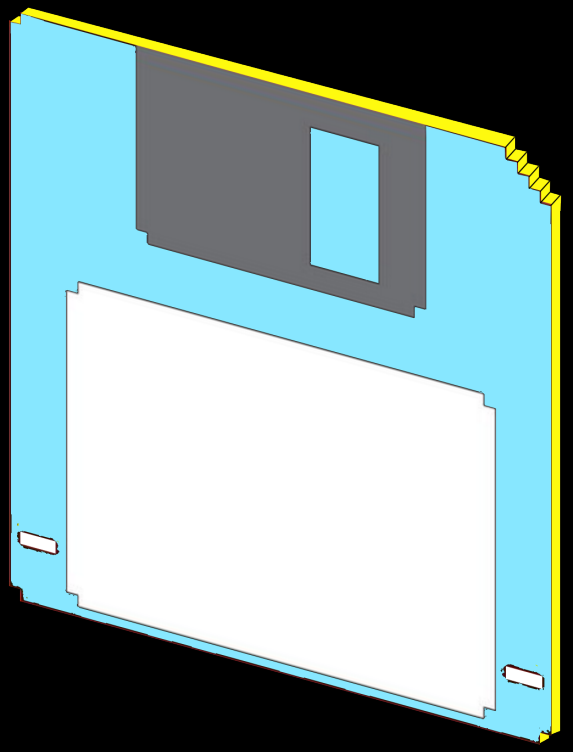
Keyboard

Display

Memory

Kernel

Computer



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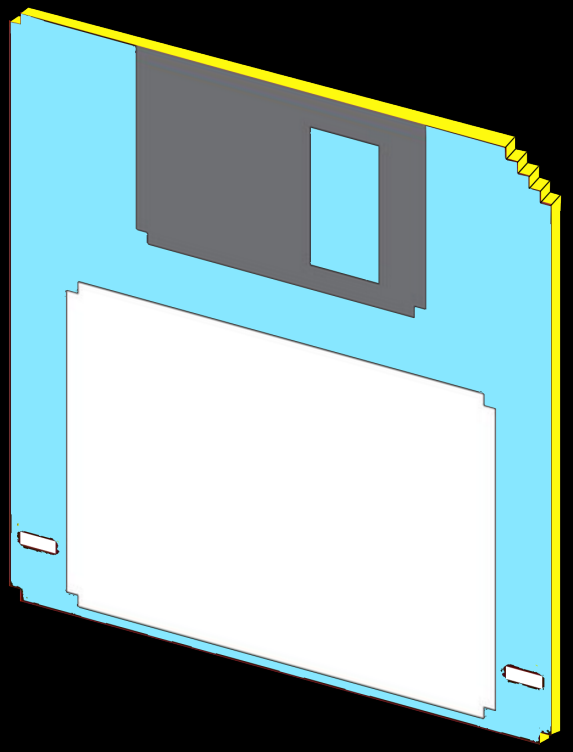

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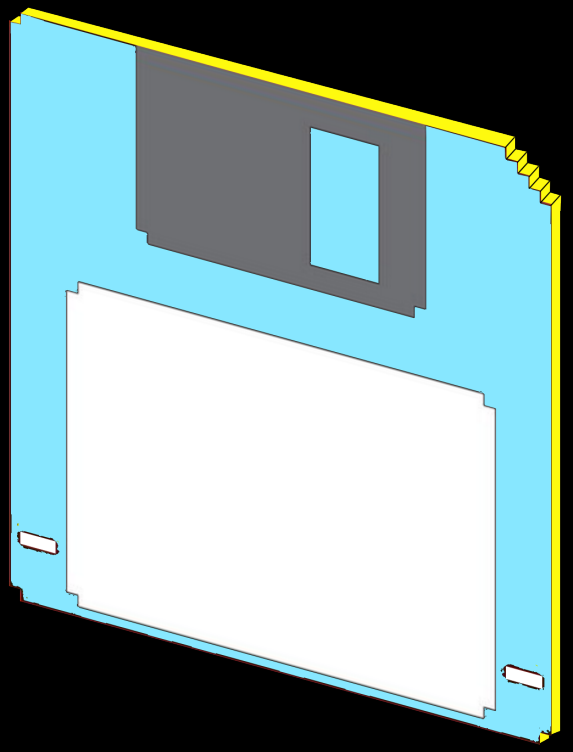


The Stack

A set of independent technologies
(or processes) loosely joined
to accomplish a design intent

The Stack

- TCP/IP
- LAMP
  - Linux
  - APACHE
  - MySQL
  - PHP

theguardian

Programming
Developer blog

What is the Guardian's tech stack?

Robert Rees

@rrees

Monday 29 December 2014 06.28 EST

Shares 6

Comments 6

Save for later

The Guardian does not have a fixed tech stack, instead we allow our teams to choose the technology that solves their problems. That leads to a lot of variety in the software we use

The last time I had to give an answer as to what the Guardian's "tech stack" is was for Silicon Milkroundabout. It turns out that for the event's booklet, "it depends" is not the right answer.

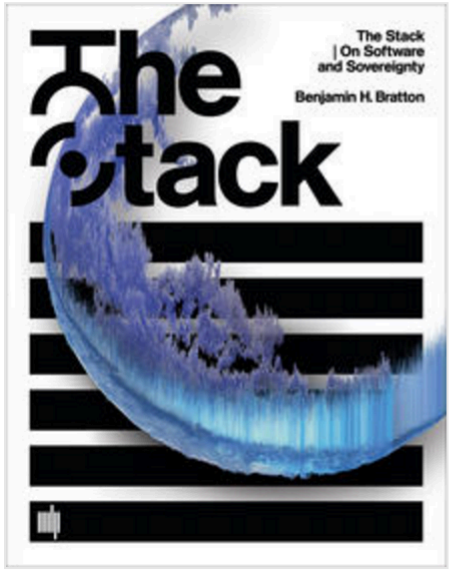
The most common answer I give when pressed is the following:

- AWS
- Scala
- Play
- JavaScript
- AngularJS or micro-libraries
- Postgres
- Elasticsearch
- Objective C, Swift and Java for native device apps

All these things are on the Guardian's "whitelist" of technologies where no-one would question why you would use them and there are plenty of existing projects and code to provide examples and support if needed.

It is also a drastic simplification of the situation.

In terms of historic projects we have codebases written in Java and Python. Python on Google App Engine is also whitelisted so it is a really handy platform for serving out static content or single-page apps that are really written in JavaScript.



Buying Options

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Add To Cart - eBook

Hardcover | **$40.00 Short** | **£29.95** | ISBN: 9780262029575 | 528 pp. | 7 x 9 in | 1 b&w illus. | February 2016

eBook | **$28.00 Short** | ISBN: 9780262330176 | 528 pp. | 1 b&w illus. | February 2016

From Software Studies

The Stack

On Software and Sovereignty

By Benjamin H. Bratton

Overview

What has planetary-scale computation done to our geopolitical realities? It takes different forms at different scales—from energy and mineral sourcing and subterranean cloud infrastructure to urban software and massive universal addressing systems; from interfaces drawn by the augmentation of the hand and eye to users identified by self—quantification and the arrival of legions of sensors, algorithms, and robots. Together, how do these distort and deform modern political geographies and produce new territories in their own image?

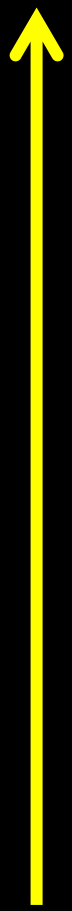
In *The Stack*, Benjamin Bratton proposes that these different genres of computation—smart grids, cloud platforms, mobile apps, smart cities, the Internet of Things, automation—can be seen not as so many species evolving on their own, but as forming a coherent whole: an accidental megastructure called The Stack that is both a computational apparatus and a new governing architecture. We are inside The Stack and it is inside of us.

In an account that is both theoretical and technical, drawing on political philosophy, architectural theory, and software studies, Bratton explores six layers of The Stack: *Earth*, *Cloud*, *City*, *Address*, *Interface*, *User*. Each is mapped on its own terms and understood as a component within the larger whole built from hard and soft systems intermingling—not only computational forms but also social, human, and physical forces. This model, informed by the logic of the multilayered structure of protocol "stacks," in which network technologies operate within a modular and vertical order, offers a comprehensive image of our emerging infrastructure and a platform for its ongoing reinvention.

The Stack is an interdisciplinary design brief for a new geopolitics that works with and for planetary-

GLAM Stack

Outcomes



Mission

GLAM Stack

Outcomes

Audience

Production

Resources

Mission

GLAM Stack

Outcomes

global outcomes
community outcomes
local outcomes
civic outcomes
individual outcomes
impactful outcomes
symbolic outcomes
long term outcomes
short term outcomes
-

OUTCOMES

- global outcomes
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study/research/collaboration
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Mission

Wildcards

- Execution
- Team
- Ideas
- Design
- Luck

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Audience

Almost 100% beyond your control

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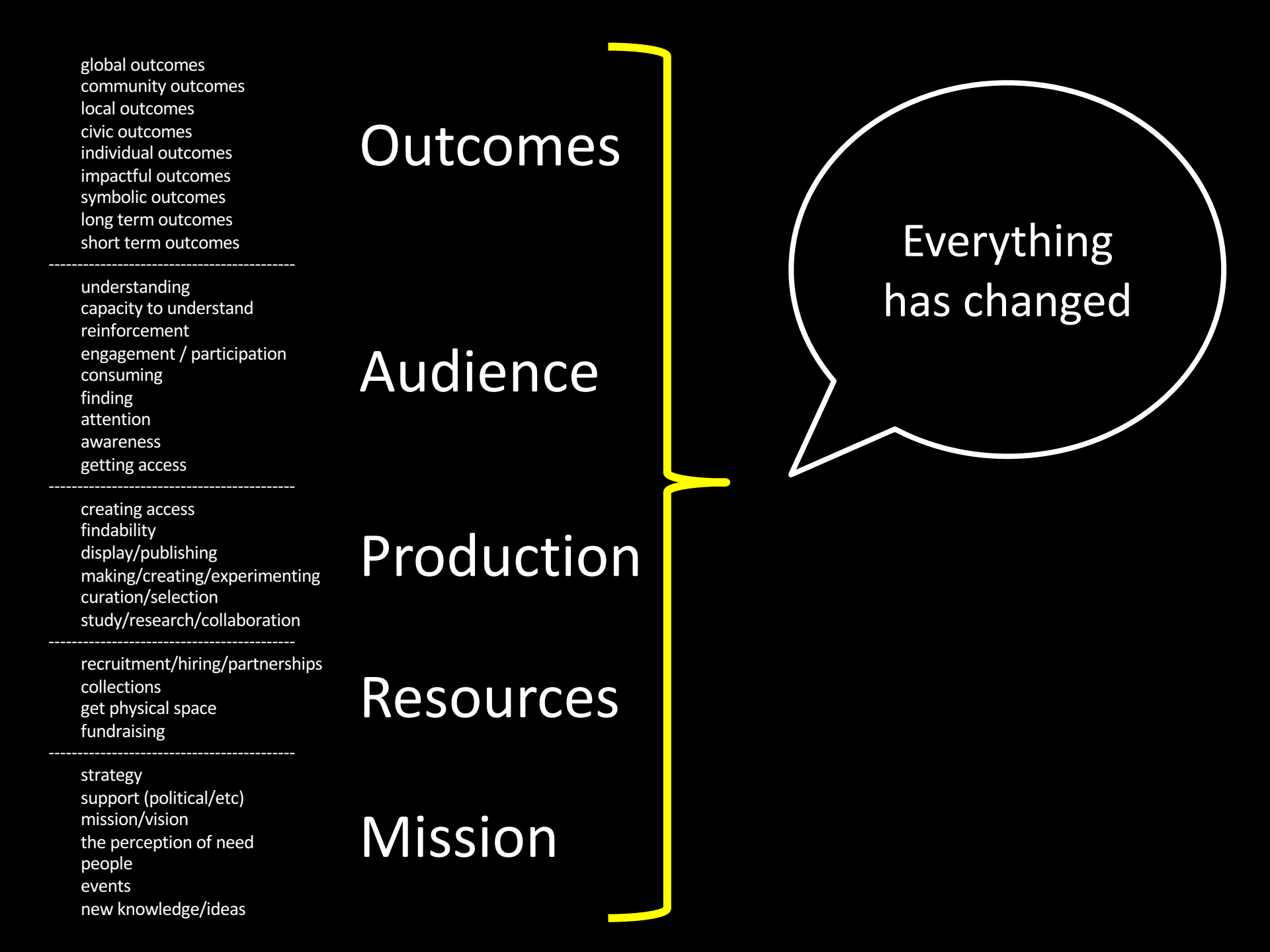
Almost 100% open to new actors and *ways of working*

“No matter what business you’re in, most of the smartest people work for someone else.”

Joy’s Law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Everything has changed

The Internet

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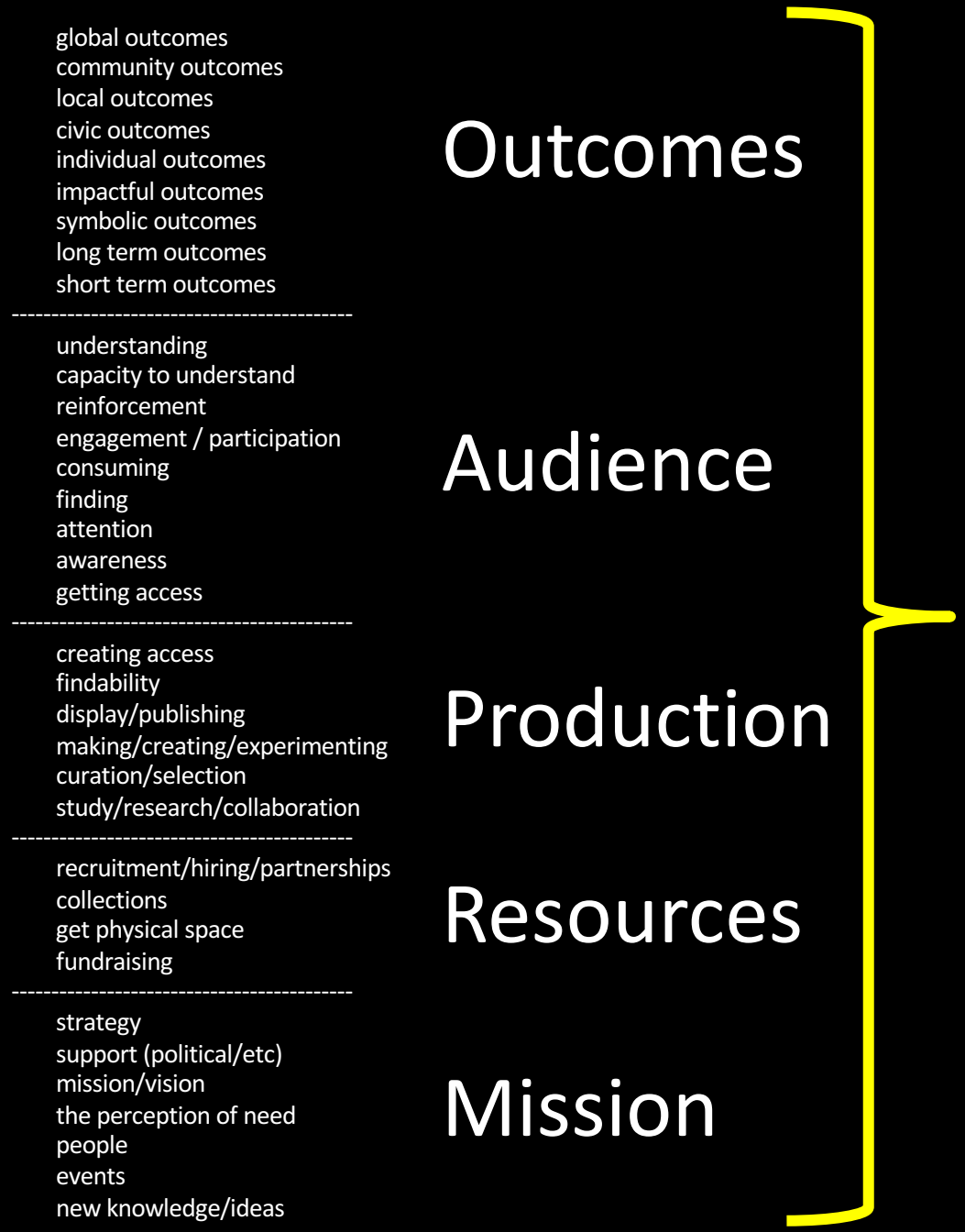

The Internet
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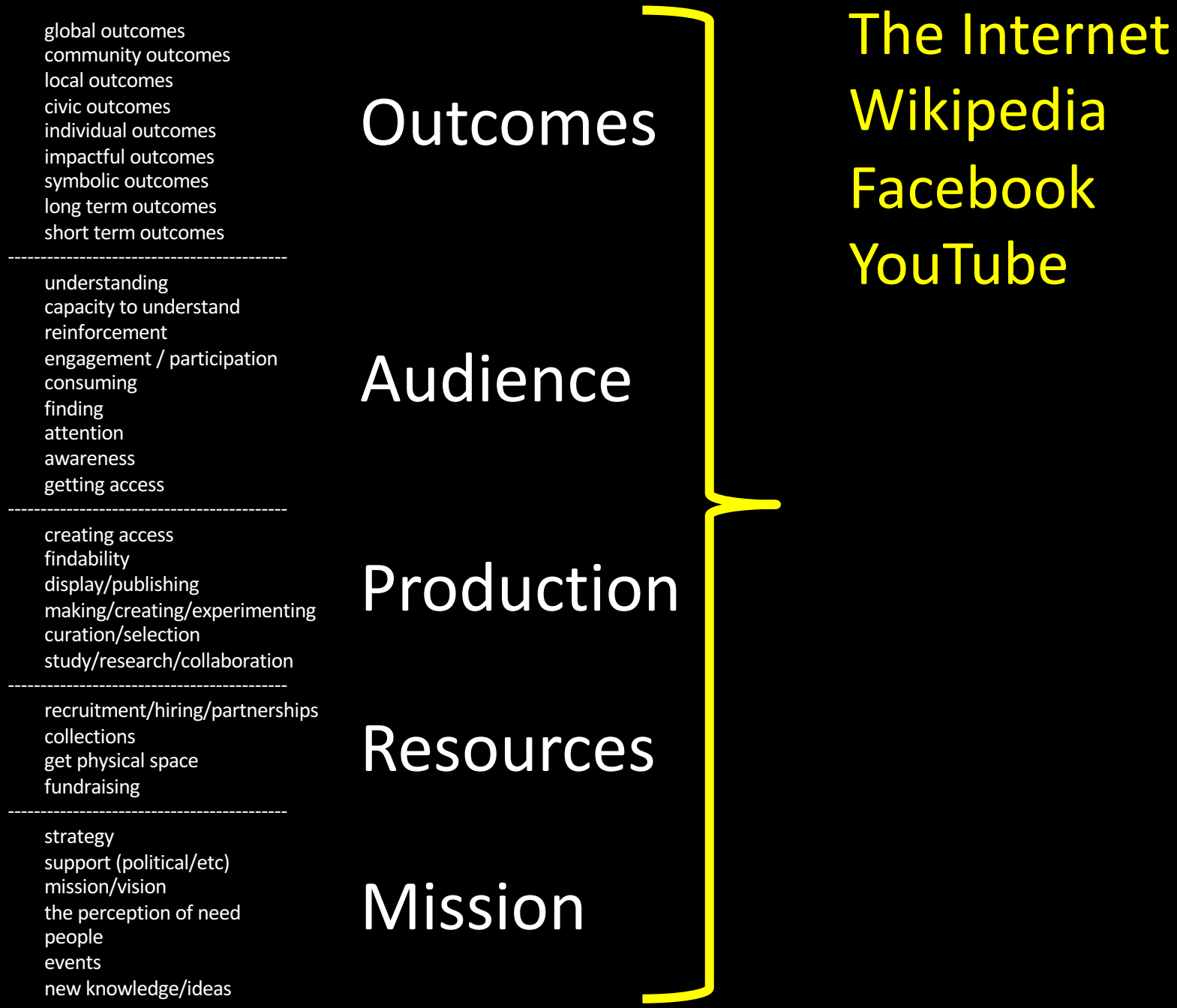
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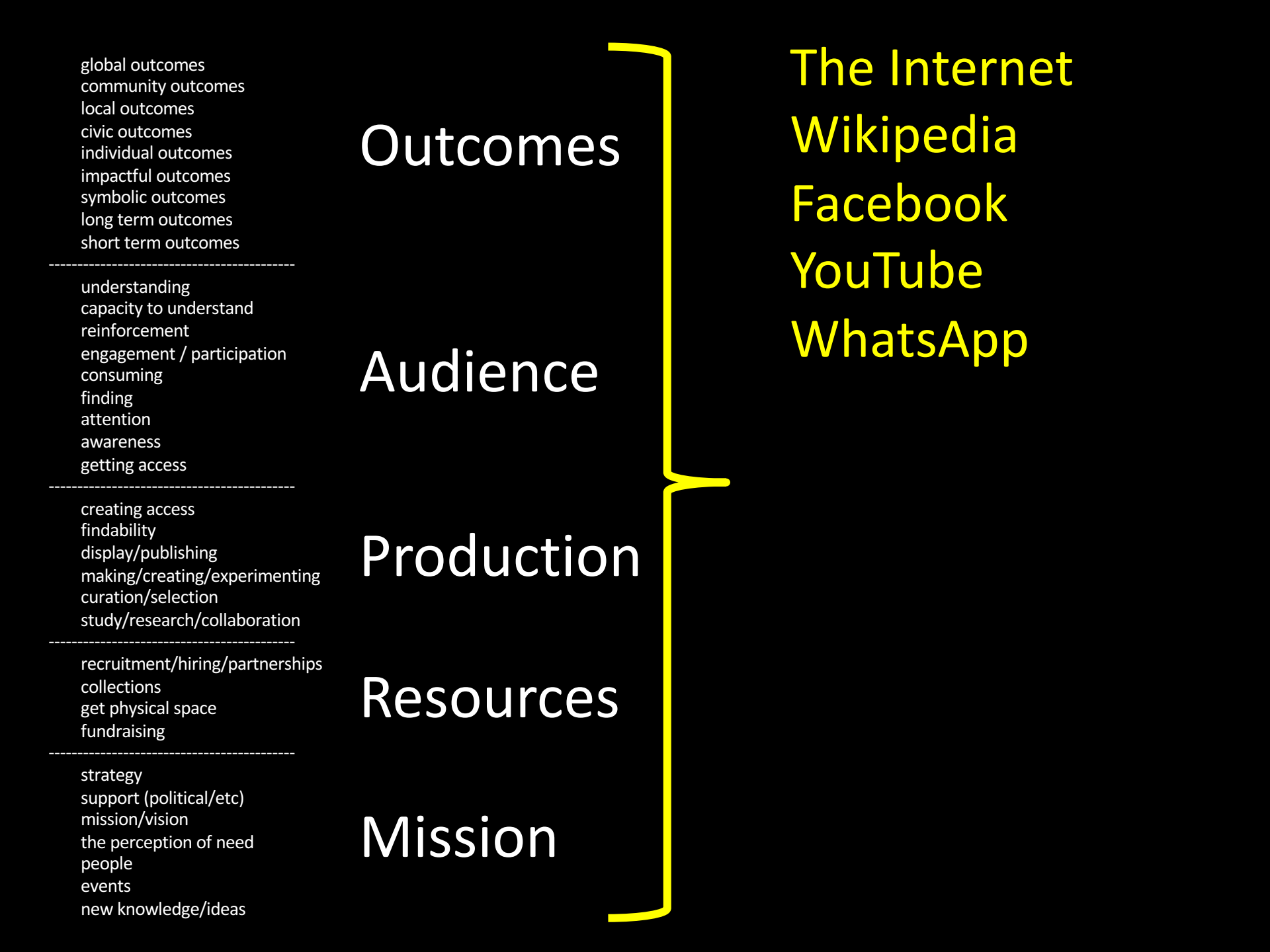
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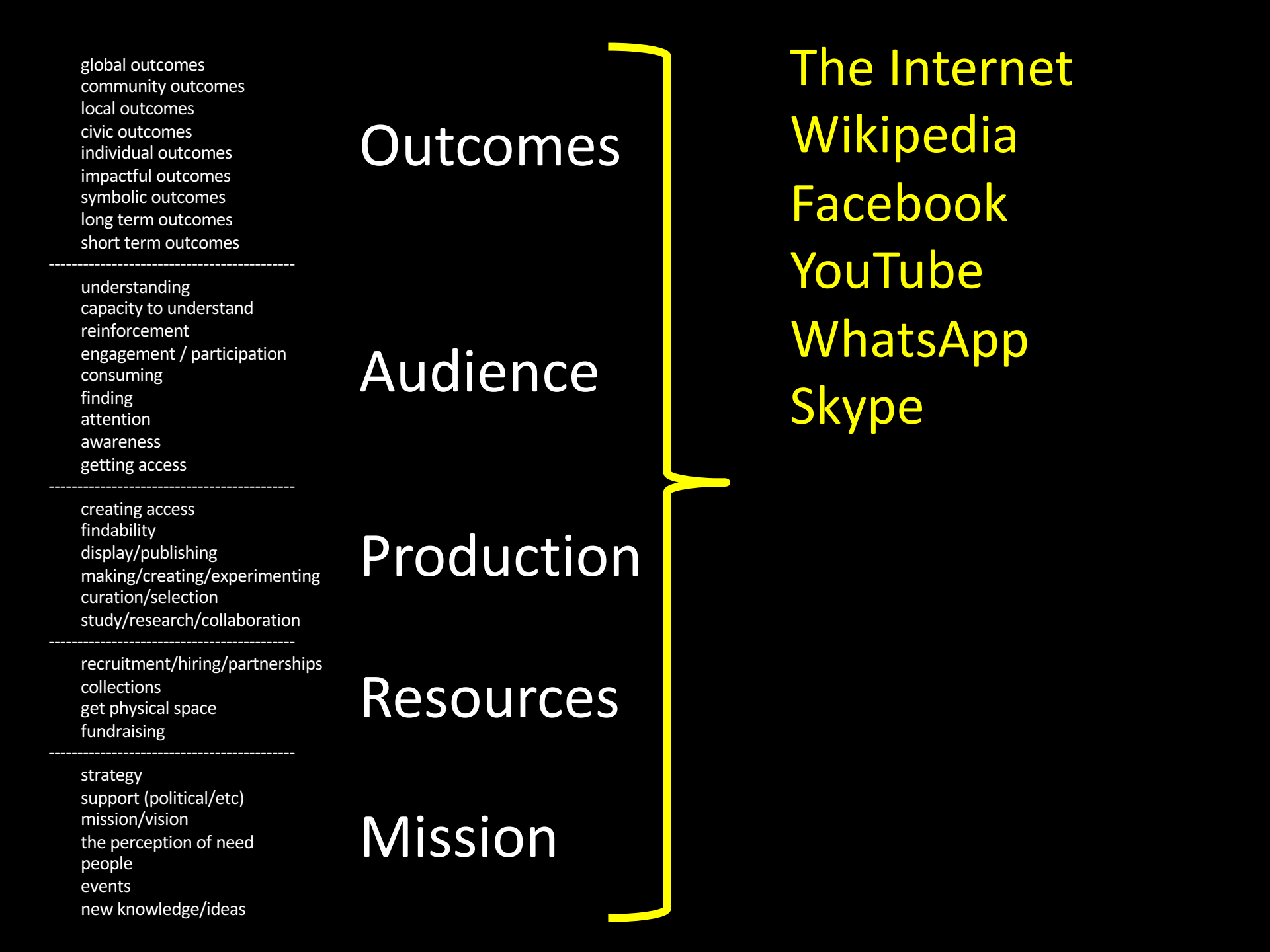
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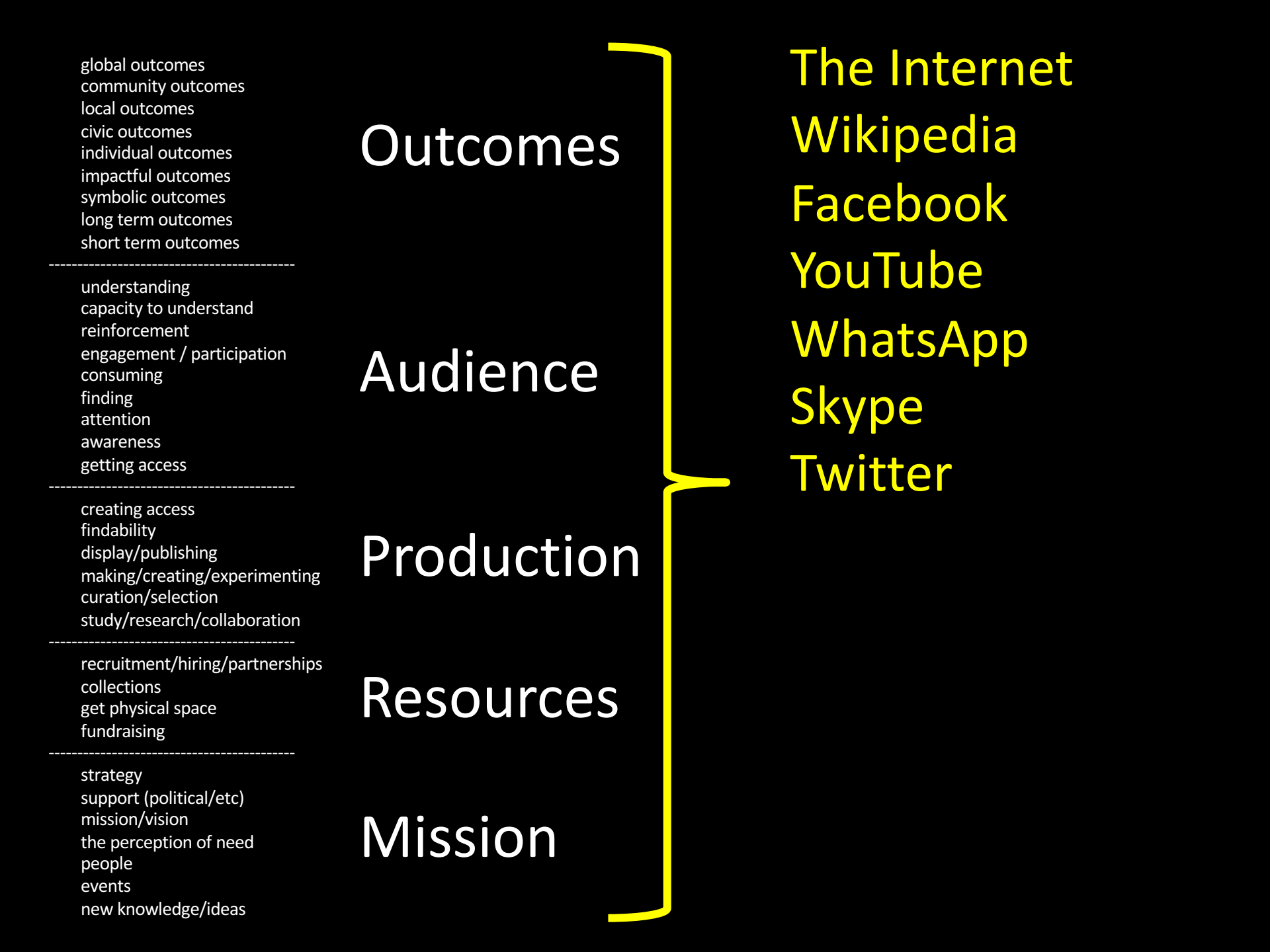
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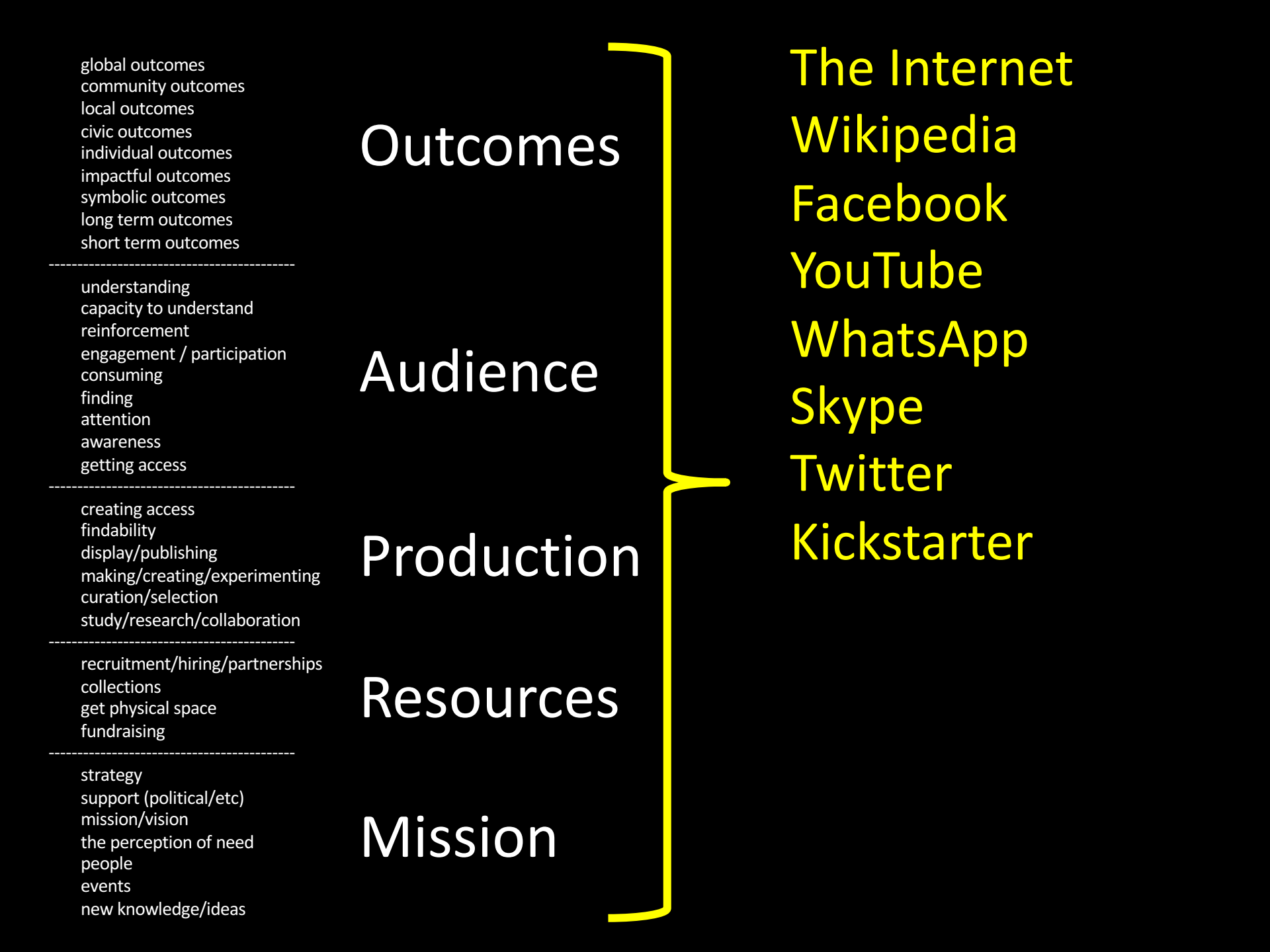
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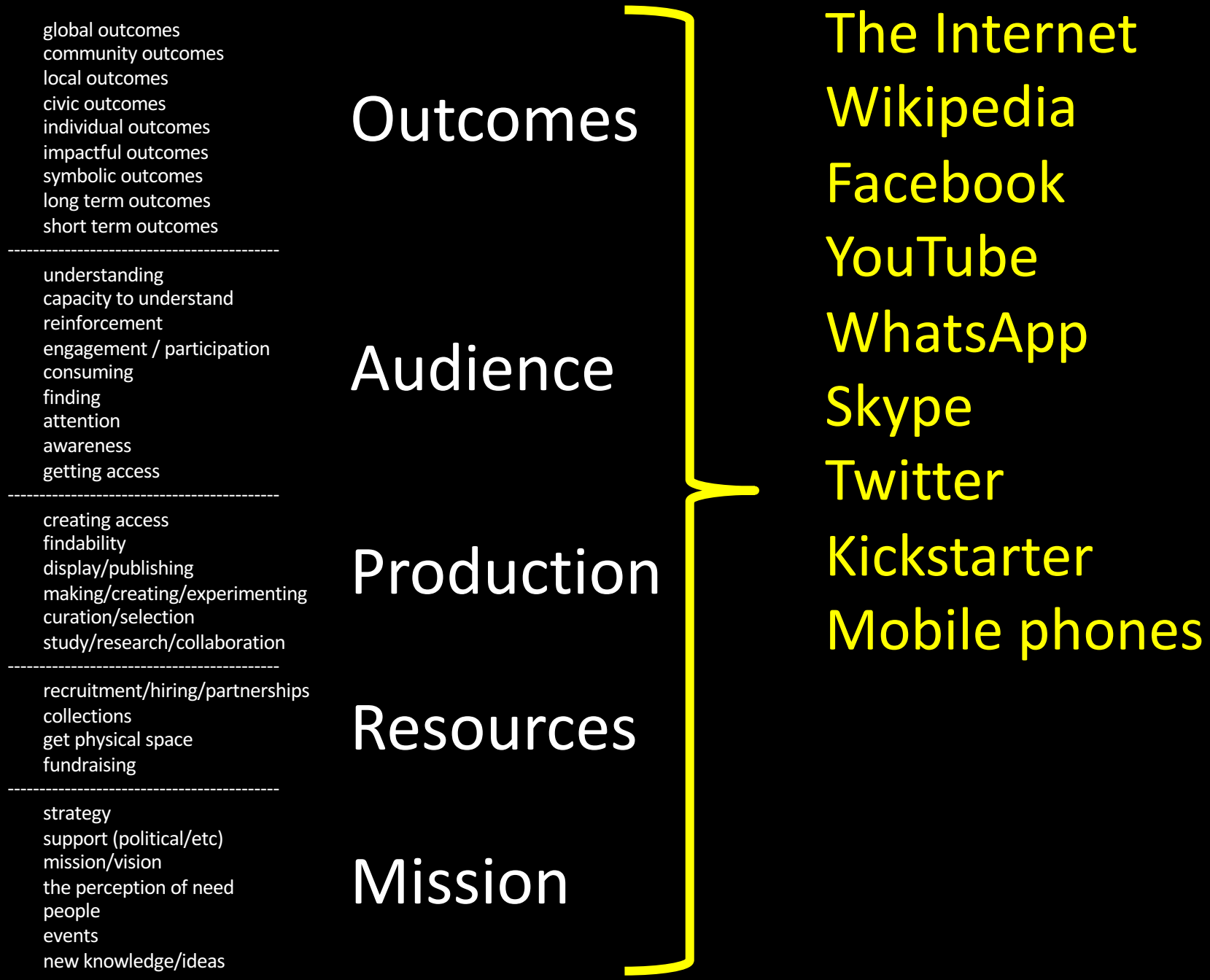
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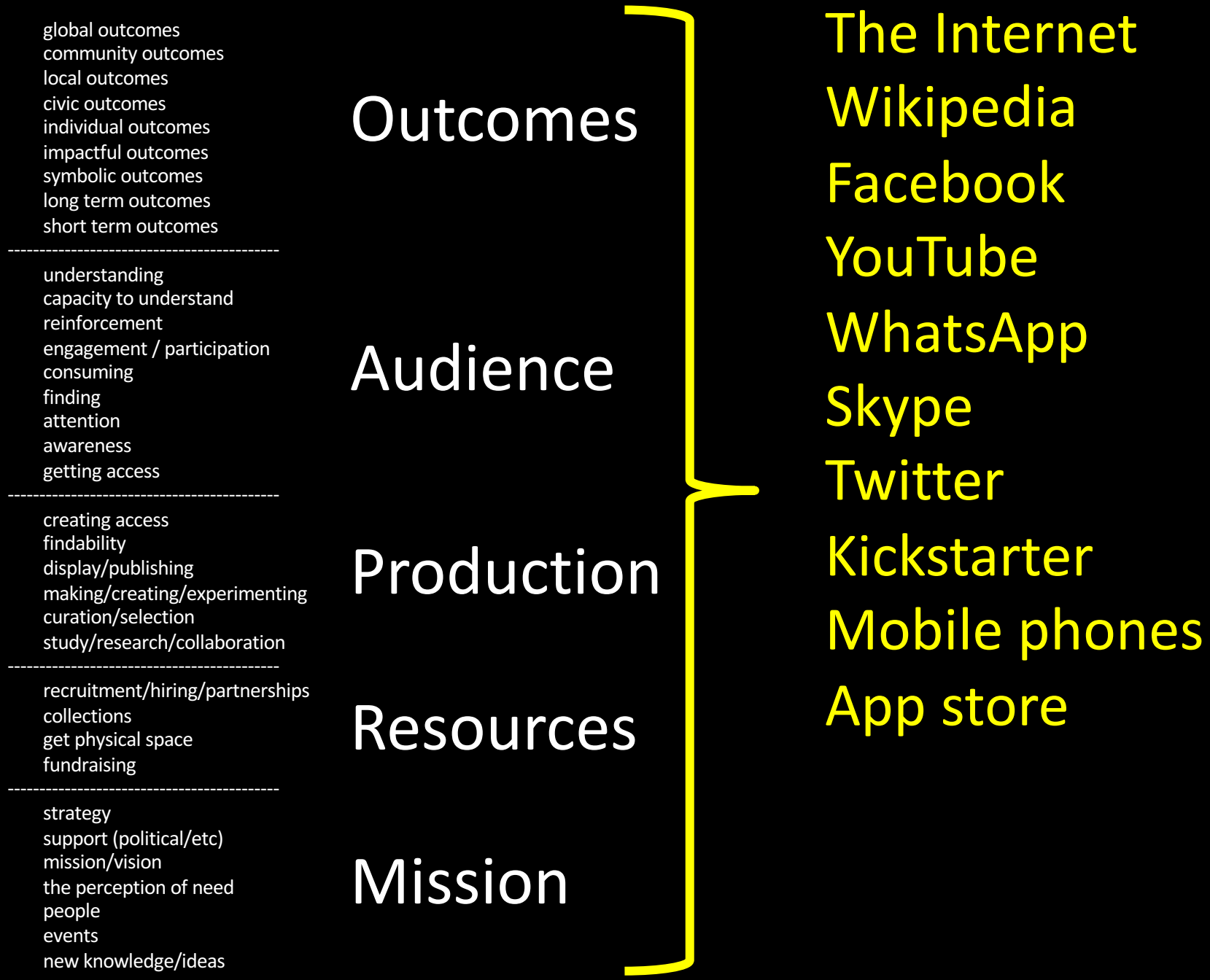
Kickstarter
Mobile phones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civic outcomes
individual outcomes
impactful outcomes
symbolic outcomes
long term outcomes
short term outcomes
Outcomes
understanding
capacity to understand
reinforcement
engagement / participation
consuming
finding
attention
awareness
getting access
Audience
creating access
findability
display/publishing
making/creating/experimenting
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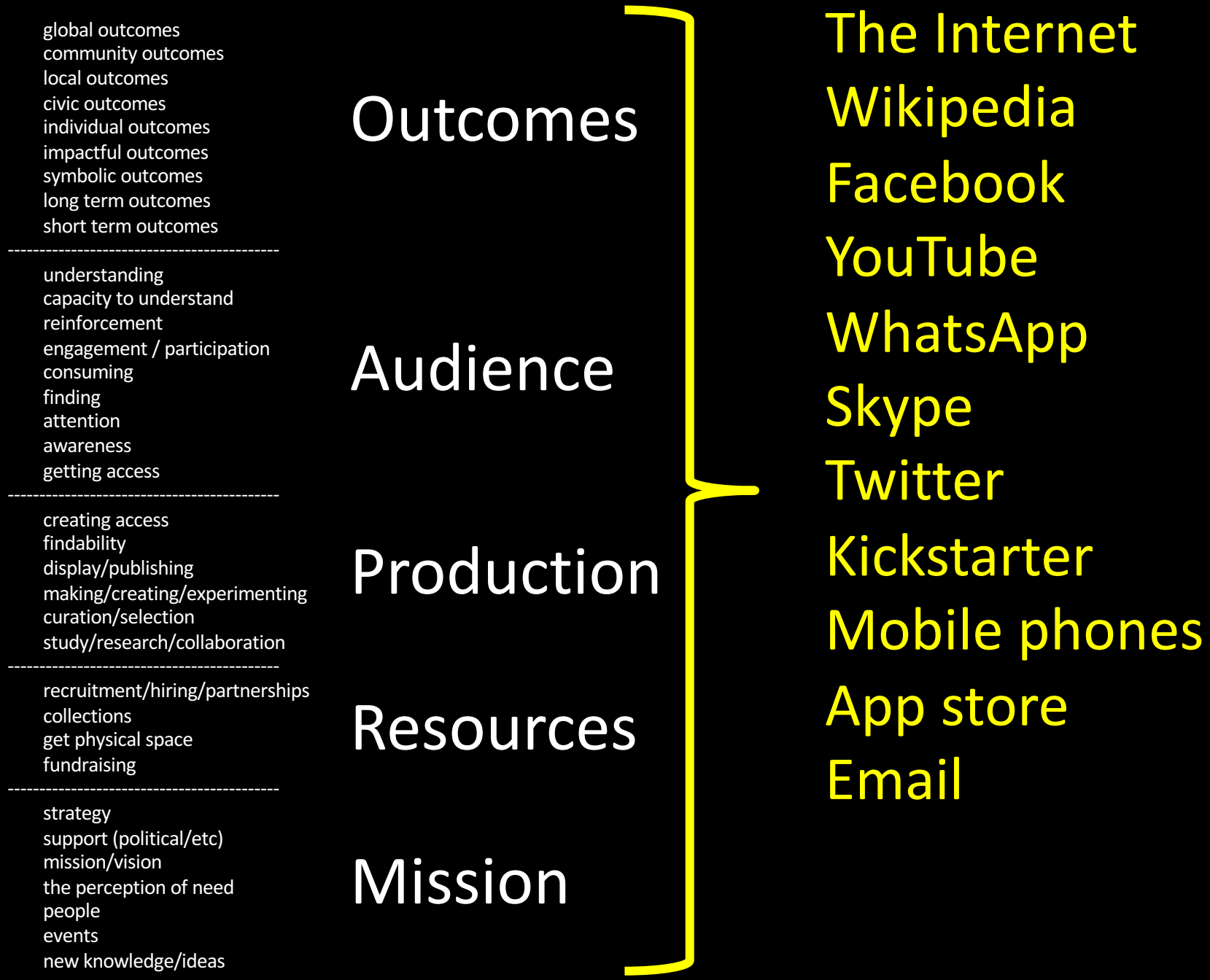
study/research/collaboration
Production
recruitment/hiring/partnerships
collections
get physical space
fundraising
Resources
strategy
support (political/etc)
mission/vision
the perception of need
people
events
new knowledge/ideas
Mission
The Internet
Wikipedia
Facebook
YouTube
WhatsApp
Skype
Twitter
Kickstarter
Mobile phones
App store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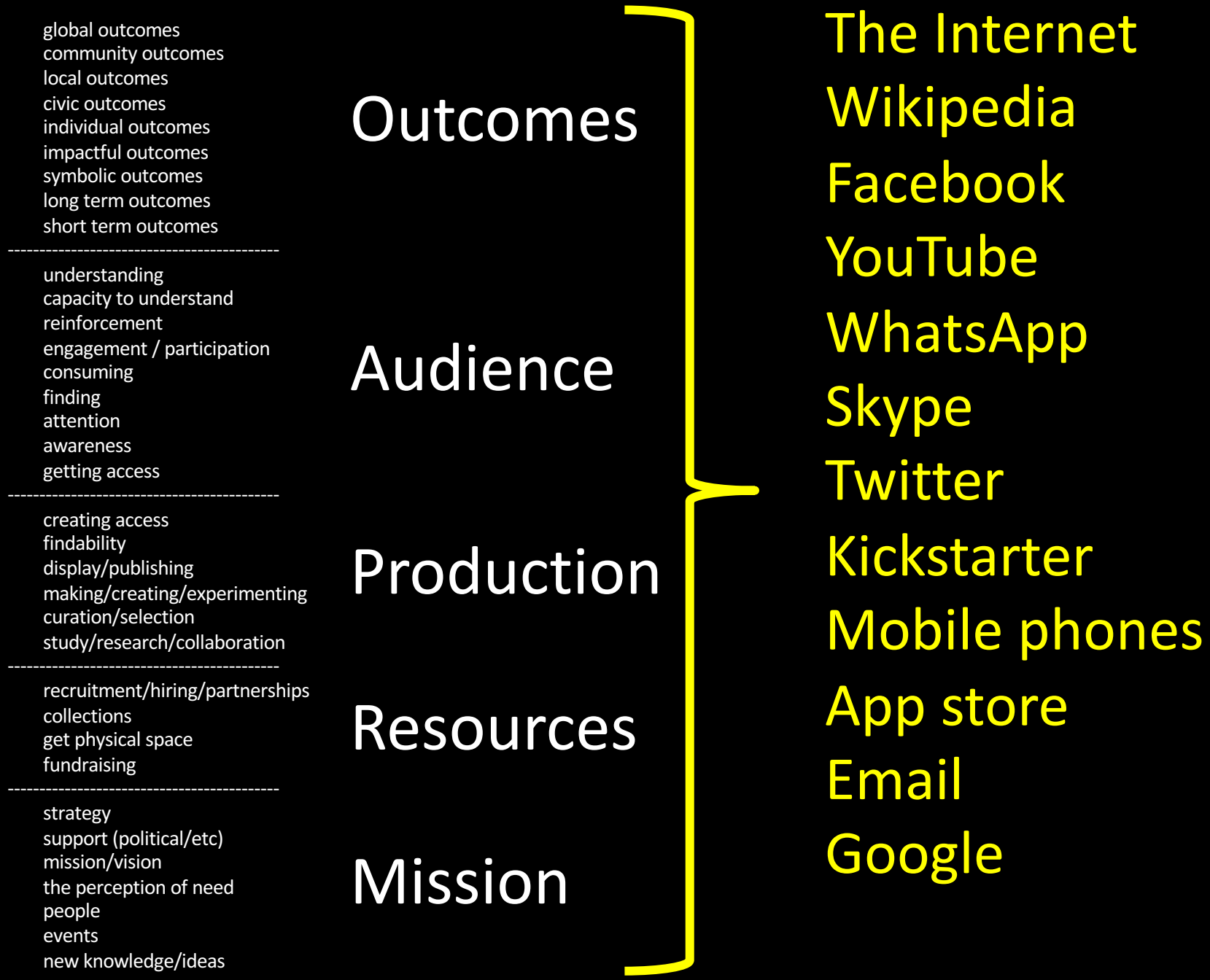
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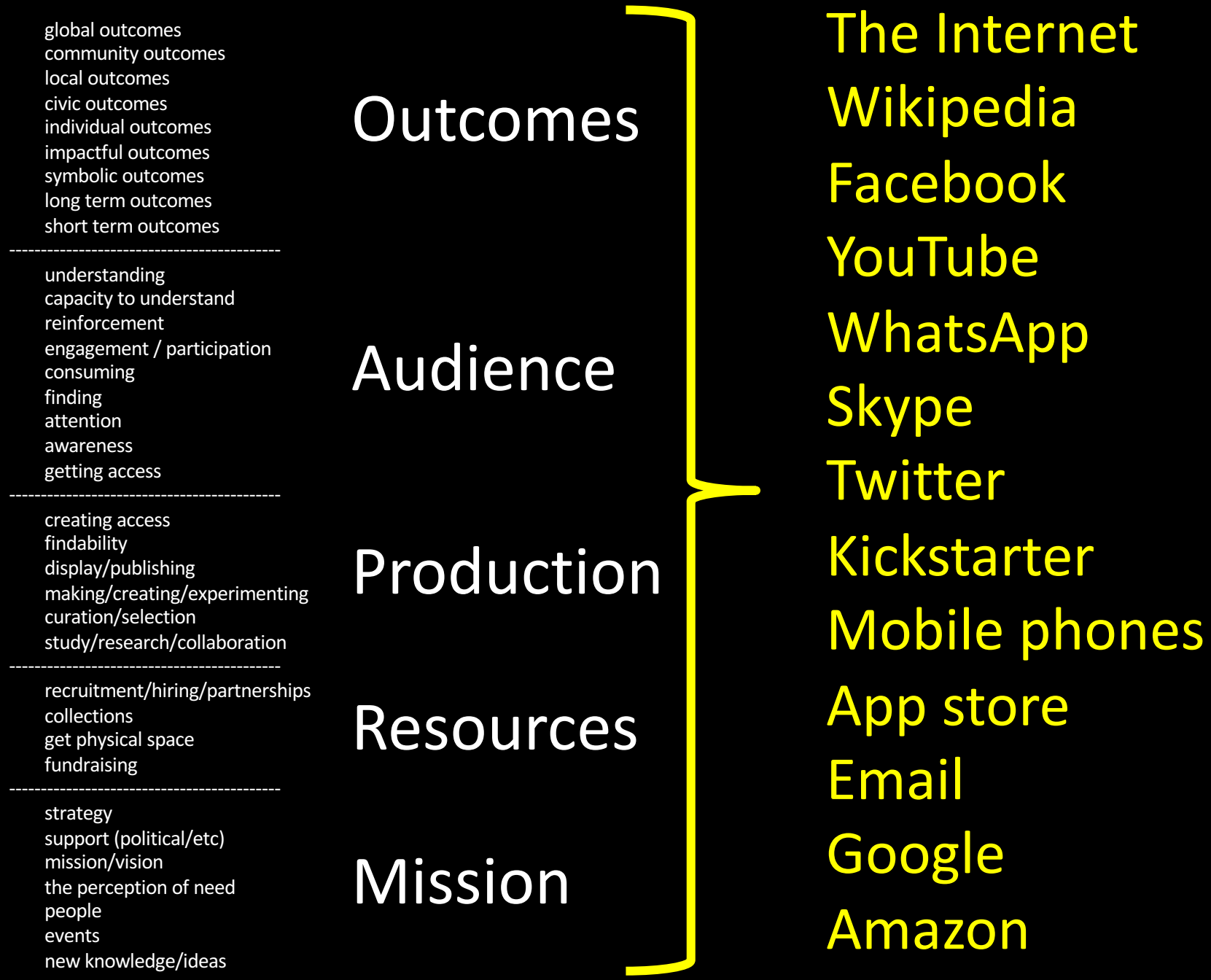
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Production

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recruitment/hiring/partnerships
collections
get physical space
fundraising

Resources

---

strategy
support (political/etc)
mission/vision
the perception of need
people
events
new knowledge/ideas

Mission

We can ask new questions about what is in this stack, how it works, and why

global outcomes
community outcomes
local outcomes
civic outcomes
individual outcomes
impactful outcomes
symbolic outcomes
long term outcomes
short term outcomes

Outcomes

What you can accomplish?

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understanding
capacity to understand
reinforcement
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Audience

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Production

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mission/vision
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events
new knowledge/ideas

Mission

Who can find you, who participates, who learns, how they learn, who benefits

global outcomes
community outcomes
local outcomes
civic outcomes
individual outcomes
impactful outcomes
symbolic outcomes
long term outcomes
short term outcomes

Outcomes

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Production

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Resources

---

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new knowledge/ideas

Mission

Who does the work and how it is *made*

global outcomes
community outcomes
local outcomes
civic outcomes
individual outcomes
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long term outcomes
short term outcomes

Outcomes

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fundraising

Resources

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Mission

Where the money, people, space, and collections come from

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community outcomes
local outcomes
civic outcomes
individual outcomes
impactful outcomes
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long term outcomes
short term outcomes

Outcomes

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Production

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collections
get physical space
fundraising

Resources

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mission/vision
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people
events
new knowledge/ideas

Mission

What can we aspire to? Dream of? Work towards?

global outcomes
community outcomes
local outcomes
civic outcomes
individual outcomes
impactful outcomes
symbolic outcomes
long term outcomes
short term outcomes

Outcomes

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Resources

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Mission

More global
More participatory
More open
Faster
Larger scope
Greater scale
Greater impact

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community outcomes
local outcomes
civic outcomes
individual outcomes
impactful outcomes
symbolic outcomes
long term outcomes
short term outcomes

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recruitment/hiring/partnerships
collections
get physical space
fundraising

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strategy
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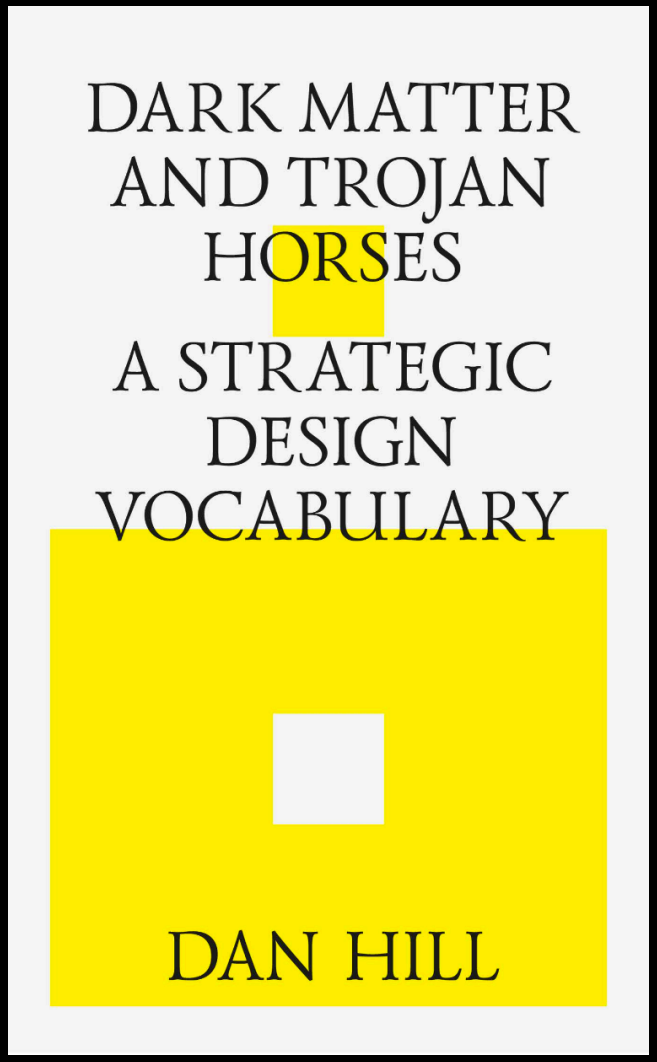
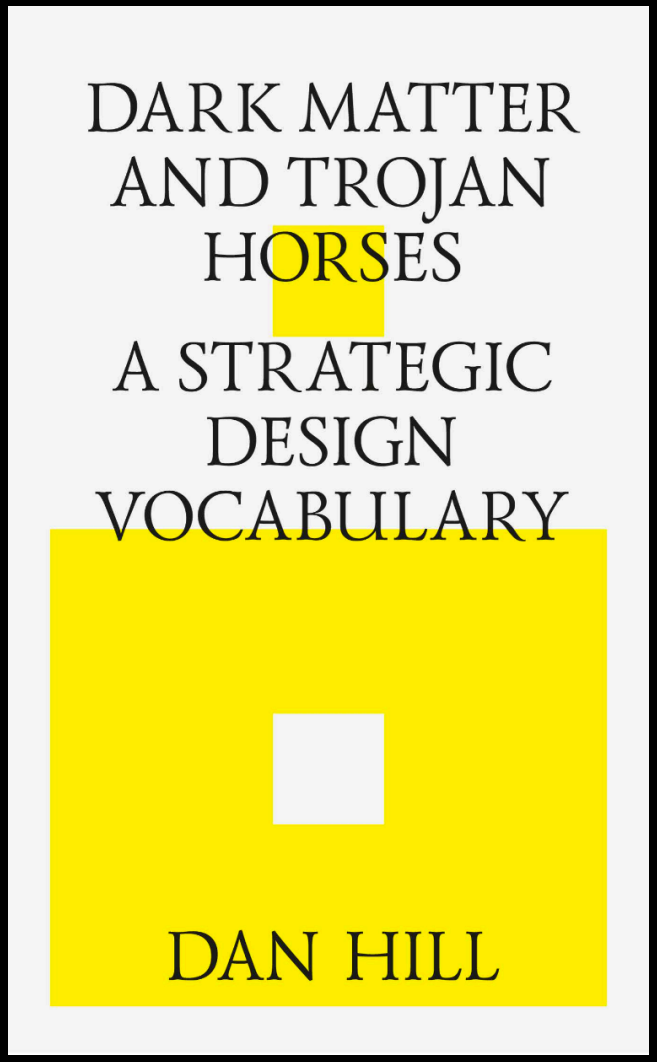
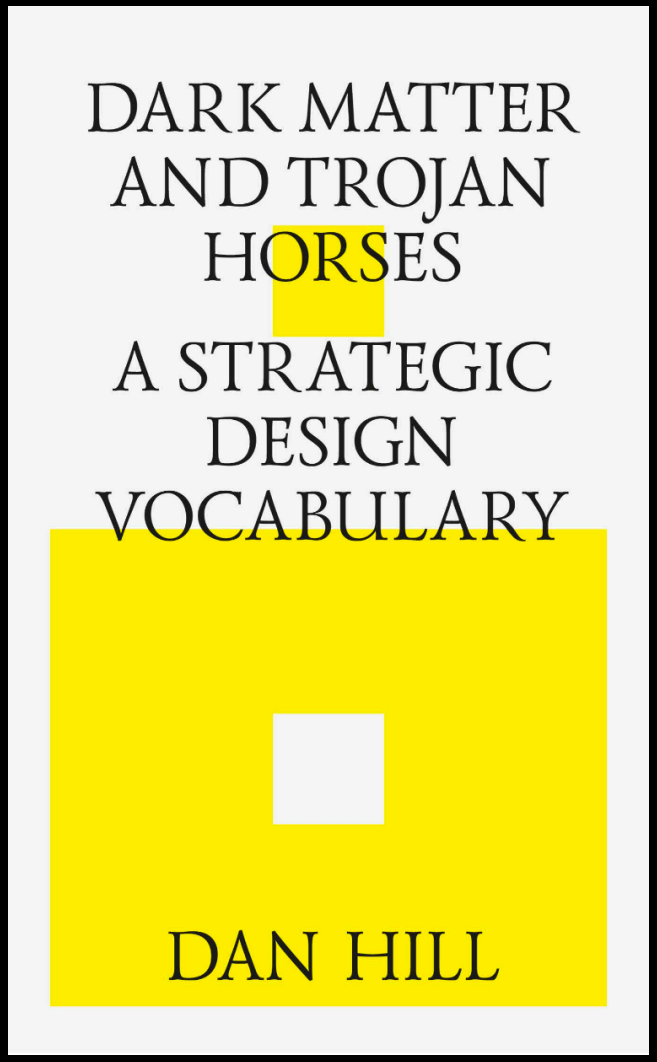
1. The Stack can be designed

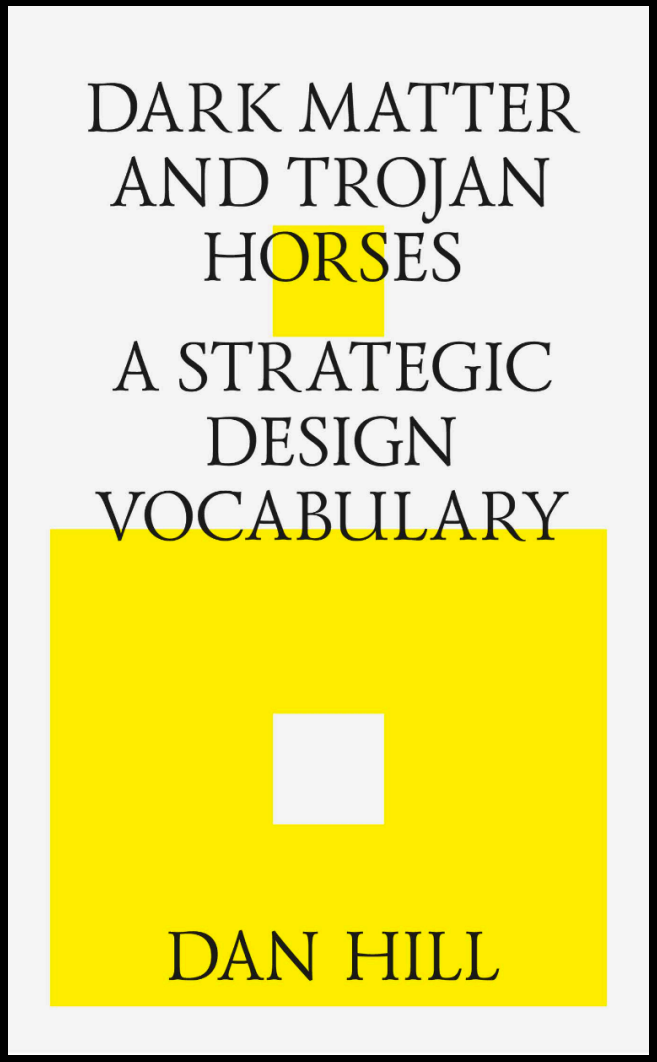

DARK MATTER
AND TROJAN
HORSES
A STRATEGIC
DESIGN
VOCABULARY
DAN HILL



"We are motivated by the belief that the current structures are themselves design decisions, no matter how unconscious.

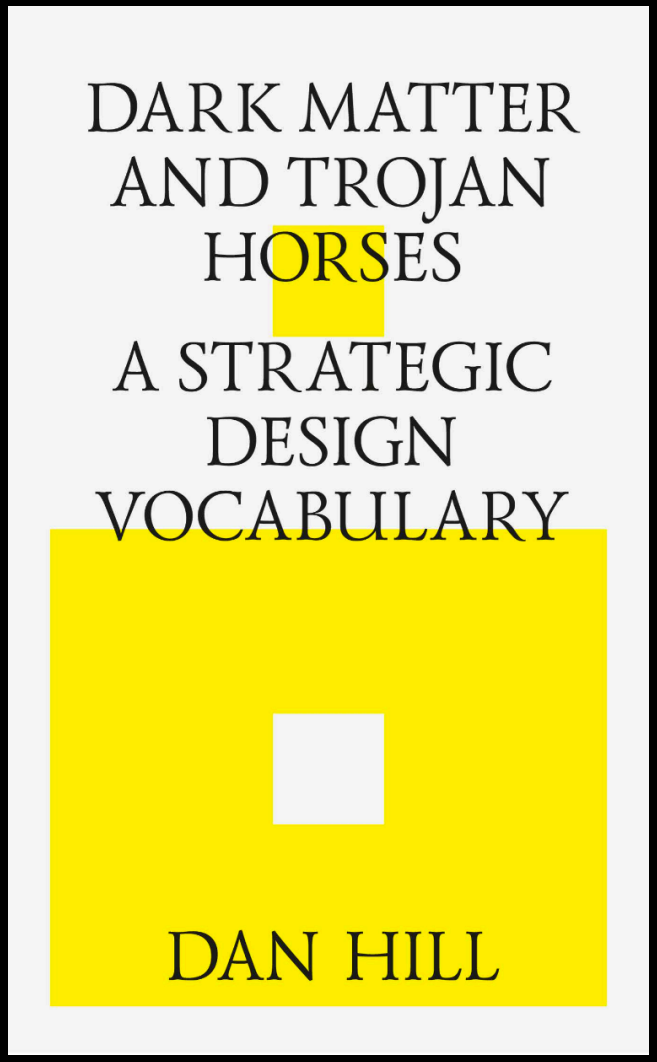


"We are motivated by the belief that the current structures are themselves design decisions, no matter how unconscious. And if it was designed in one way,



"We are motivated by the belief that the current structures are themselves design decisions, no matter how unconscious. And if it was designed in one way, it follows that it can be designed in a different way."

Dan Hill
Dark Matter and Trojan Horses, A Strategic Design Vocabulary



"Design has too often been deployed at the low value end of the product spectrum, putting lipstick on the pig."

Dan Hill
Dark Matter and Trojan Horses, A Strategic Design Vocabulary

OUTCOMES
- global outcomes
- community outcomes
- local outcomes
- civic outcomes
- individual outcomes
- impactful outcomes
- symbolic outcomes
- long term outcomes
- short term outcomes

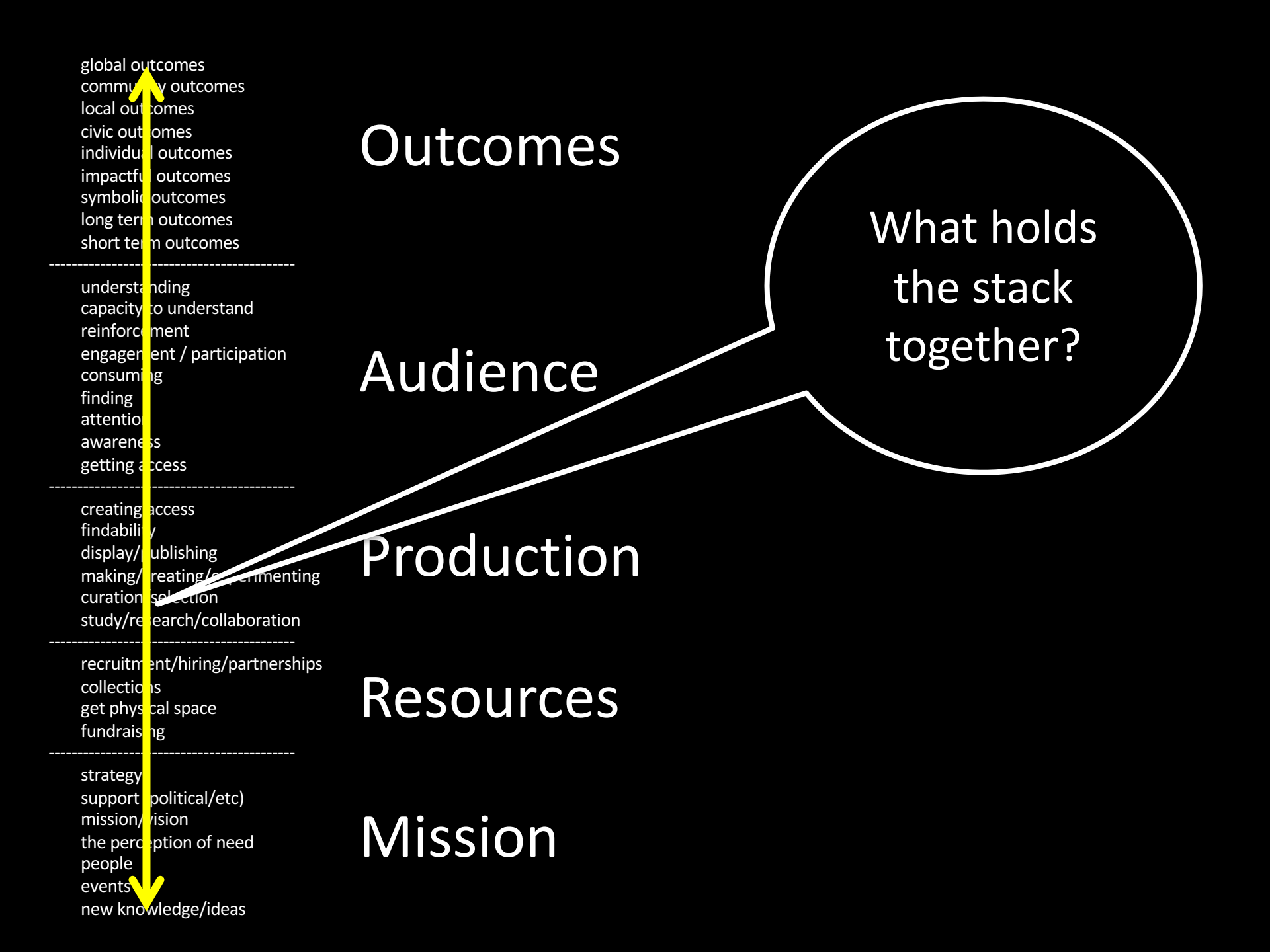
AUDIENCE
- understanding
- capacity to understand
- reinforcement
- engagement / participation
- consuming
- finding
- attention
- awareness
- getting access

PRODUCTION
- creating access
- findability
- display/publishing
- making/creating/experimenting
- curation/selection
- study/research/collaboration

RESOURCES
- recruitment/hiring/partnerships
- collections
- get physical space
- fundraising

MISSION
- strategy
- support (political/etc)
- mission/vision
- the perception of need
- people
- events
- new knowledge/ideas

2. The Stack can be *reversed*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the perception of need
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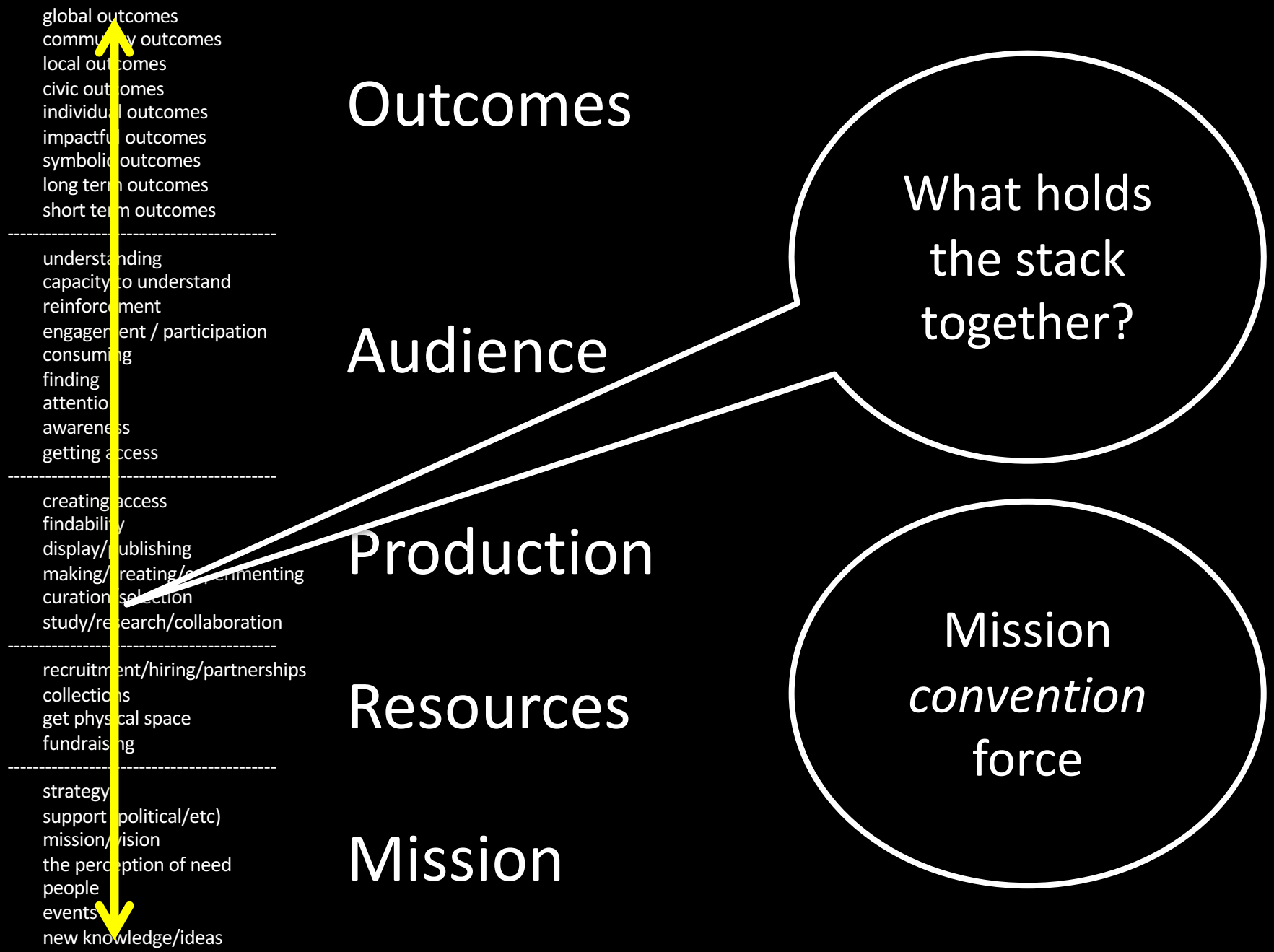
events
new knowledge/ideas
Outcomes
Audience
Production
Resources
Mission
What holds the stack together?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the perception of need
people
events
new knowledge/ideas
Outcomes
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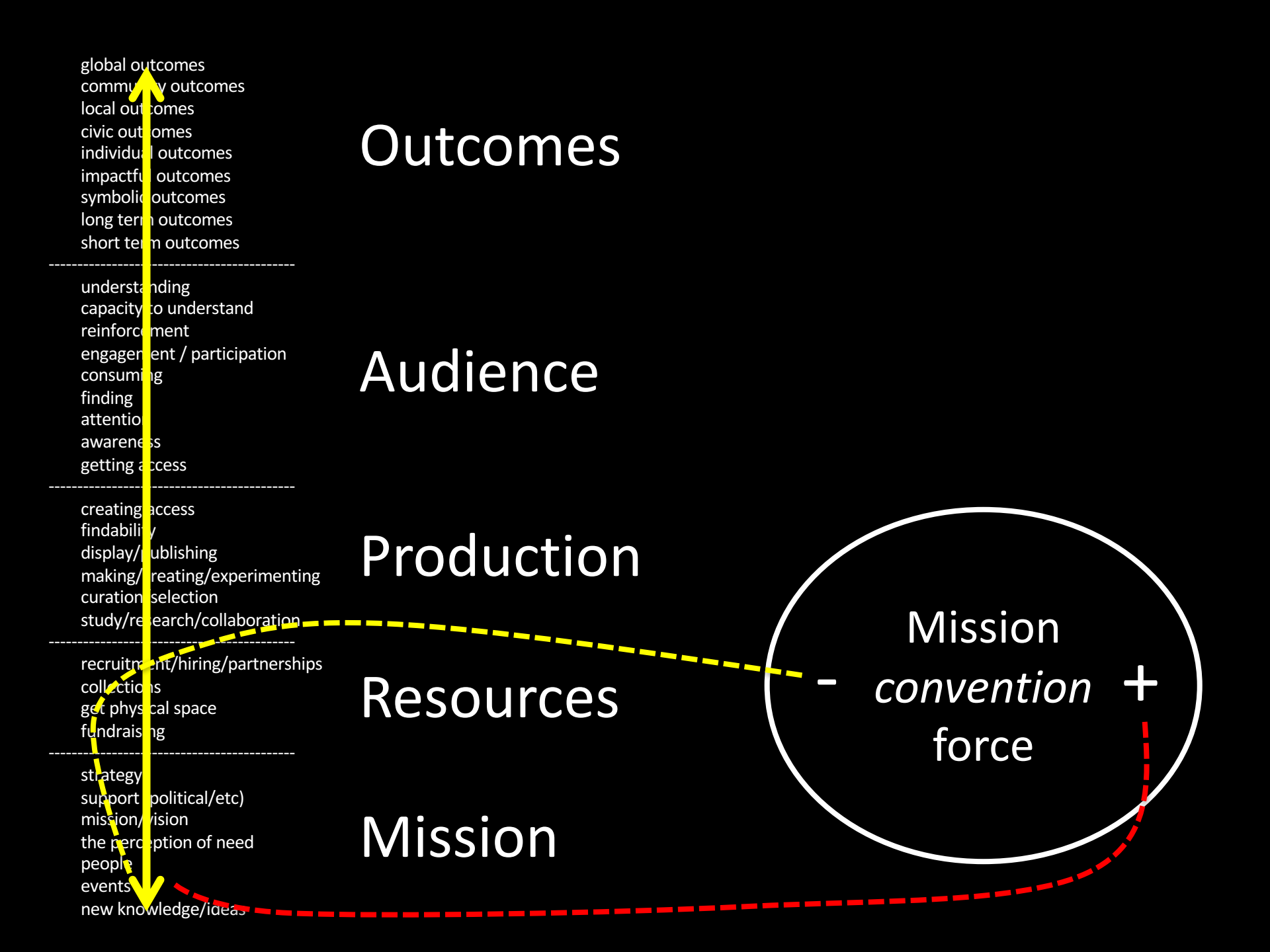
Production
Resources
Mission
What holds the stack together?
Mission *convention* force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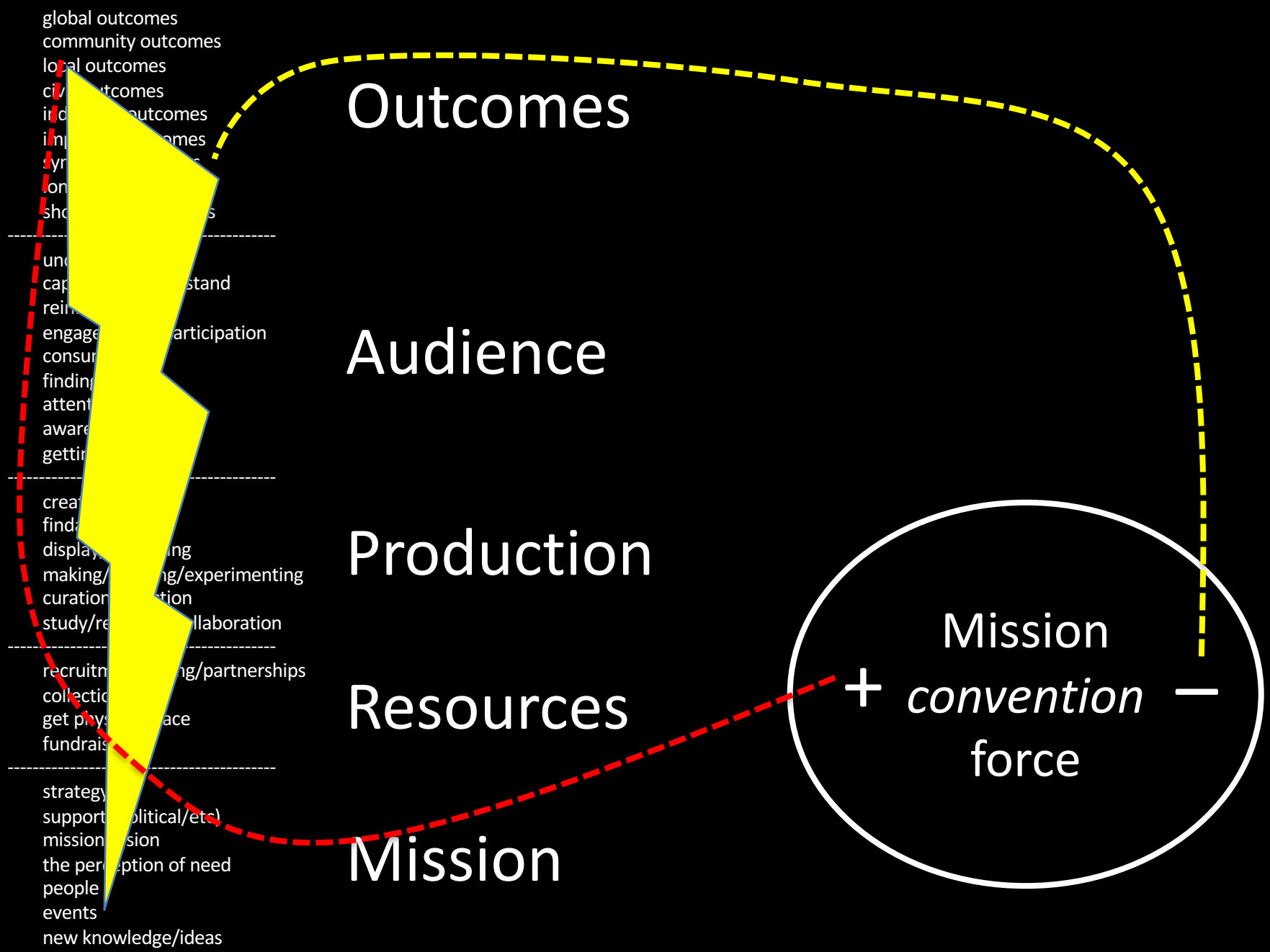
global outcomes
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Mission
+ Mission *convention* force −
new knowledge/ideas

“What would I do if the ocean were my client?”

Rachel Weidinger
http://rachelweidinger.com/

More like gardening
than manufacturing

3. Stacks can be *remixed*

“one person’s stack is…”

Innovation becomes infrastructure

4. Stacks can be *Optimized*

Money

Value

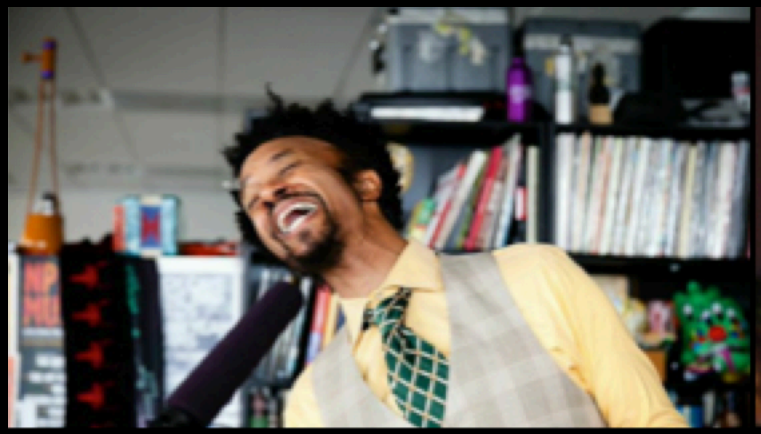
Speed

Caution /Risk

Participation

Openness

5. Your stack can become a *liability*



Think big, start small, move fast

Digital Strategy in a Changing World

http://slideshare.net/edsonm

http://slideshare.net/edsonm

The whole worldstack is changing

And new stacks are emerging…

- Biodiversity
- Climate change
- Space travel
- Materials science and 3d printing
- Renewable energy
- Artificial intelligence
- robotics
- Nanotech
- Biotech
- Engineered life

The whole worldstack is changing

Entirely new trees of life

UN LIVE
MUSEUM FOR HUMANITY

Outcomes

- global outcomes
- community outcomes
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Production

- creating access
- findability
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- collections
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Mission

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- events
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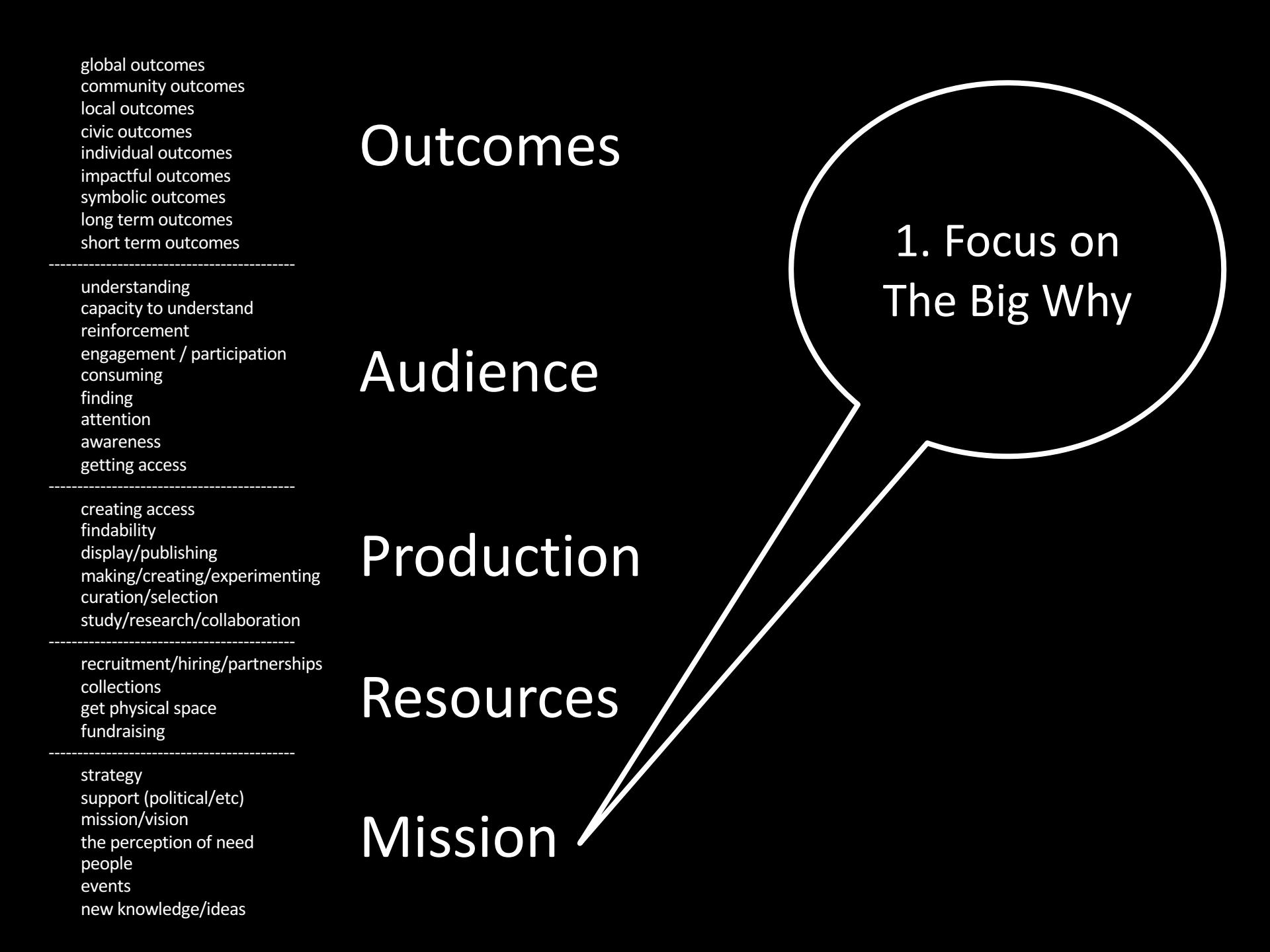
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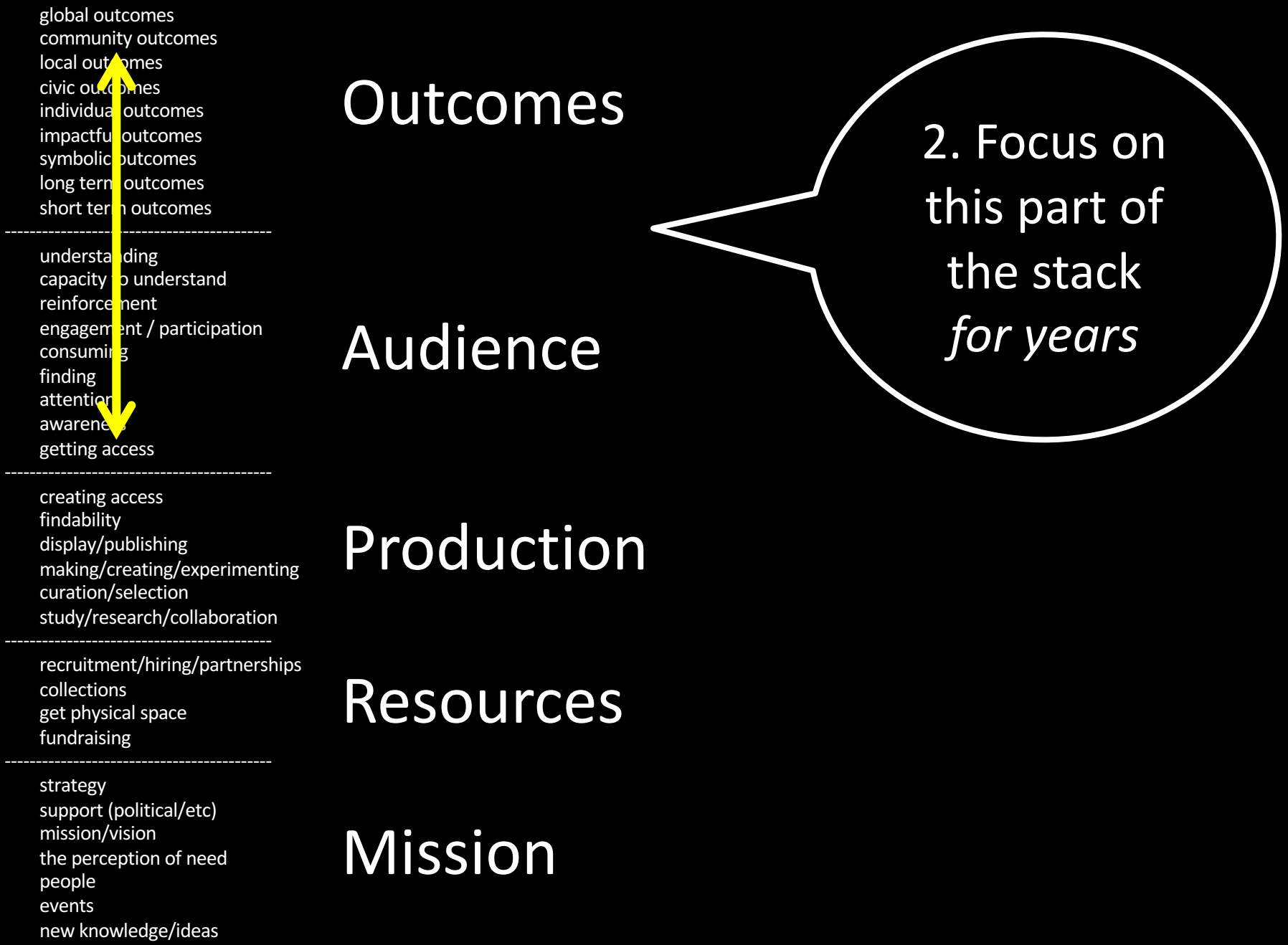
Mission
1. Focus on
The Big Why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Outcomes
Audience
Production
Resources
Mission
2. Focus on this part of the stack *for years*

global outcomes
community outcomes
local outcomes
civic outcomes
individual outcomes
impactful outcomes
symbolic outcomes
long term outcomes
short term outcomes

Outcomes

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Production

---

recruitment/hiring/partnerships
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Resources

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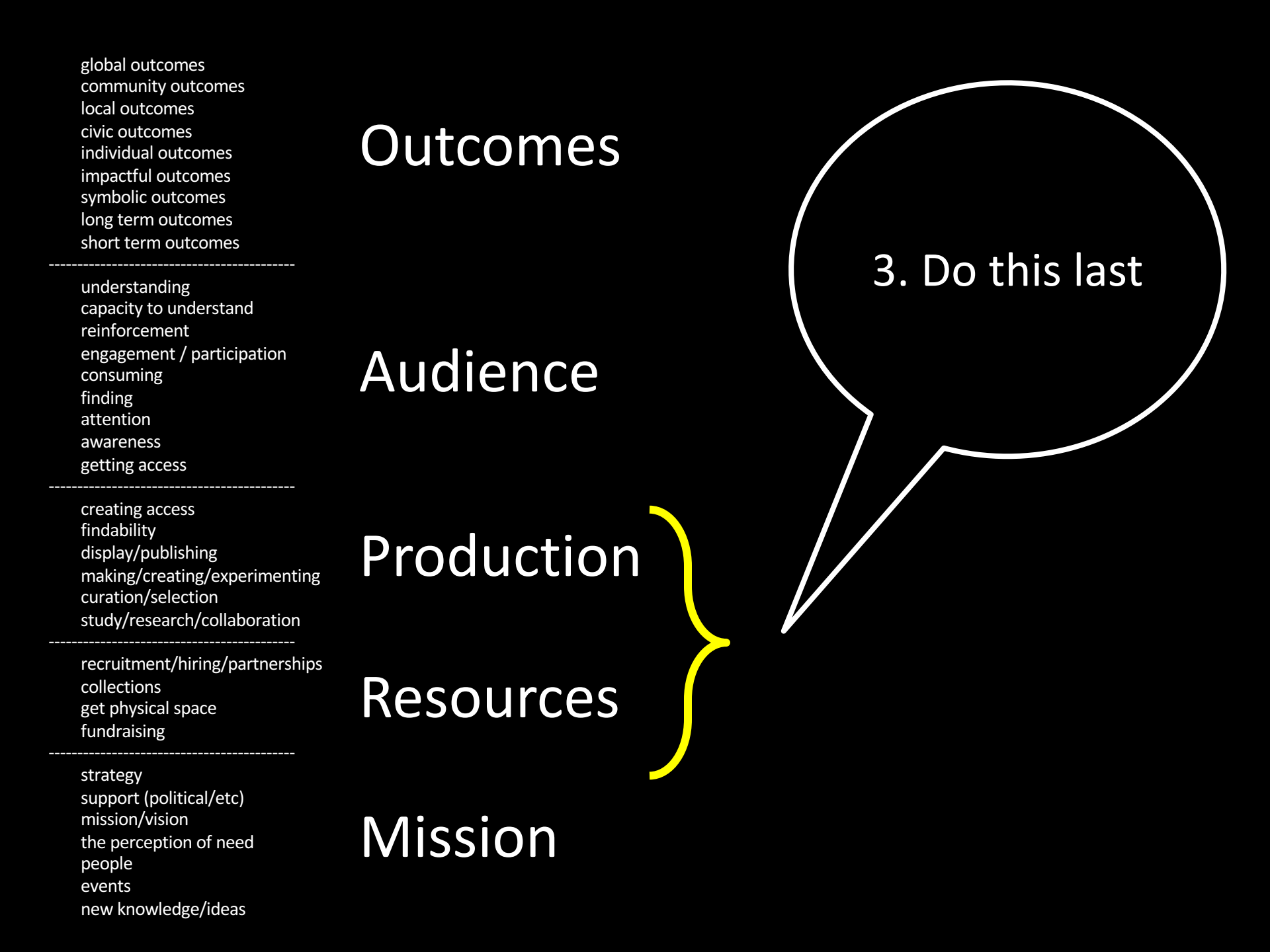
Mission

Everyone

Means

Everyone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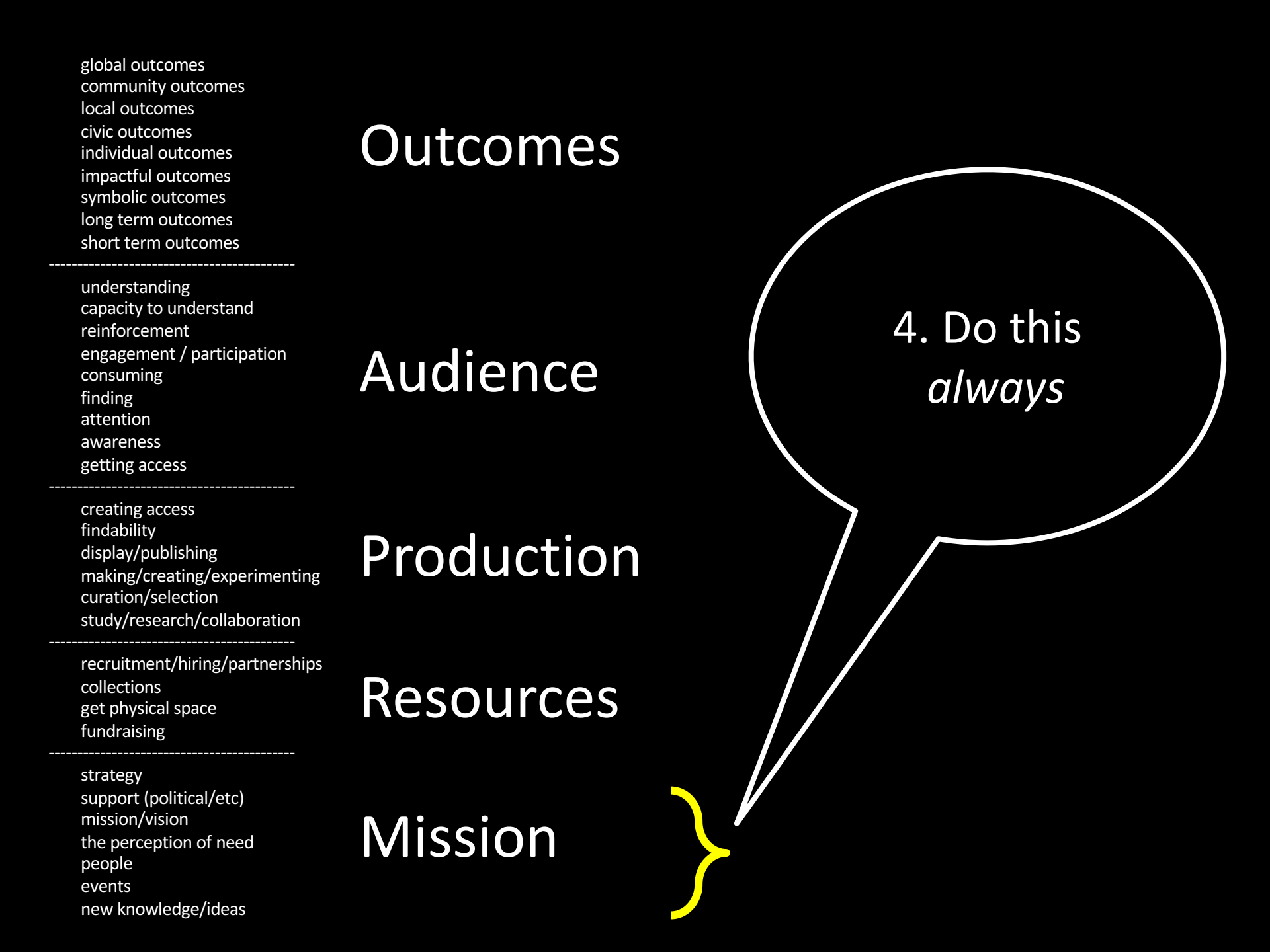
new knowledge/ideas
Mission
3. Do this last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strategy
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people
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new knowledge/ideas
Mission
4. Do this
always

global outcomes
community outcomes
local outcomes
civic outcomes
individual outcomes
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long term outcomes
short term outcomes

Outcomes

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understanding
capacity to understand
reinforcement
engagement / participation
consuming
finding
attention
awareness
getting access

Audience

Almost 100% beyond our control

creating access
findability
display/publishing
making/creating/experimenting
curation/selection
study/research/collaboration

Production

---

recruitment/hiring/partnerships
collections
get physical space
fundraising

Resources

---

strategy
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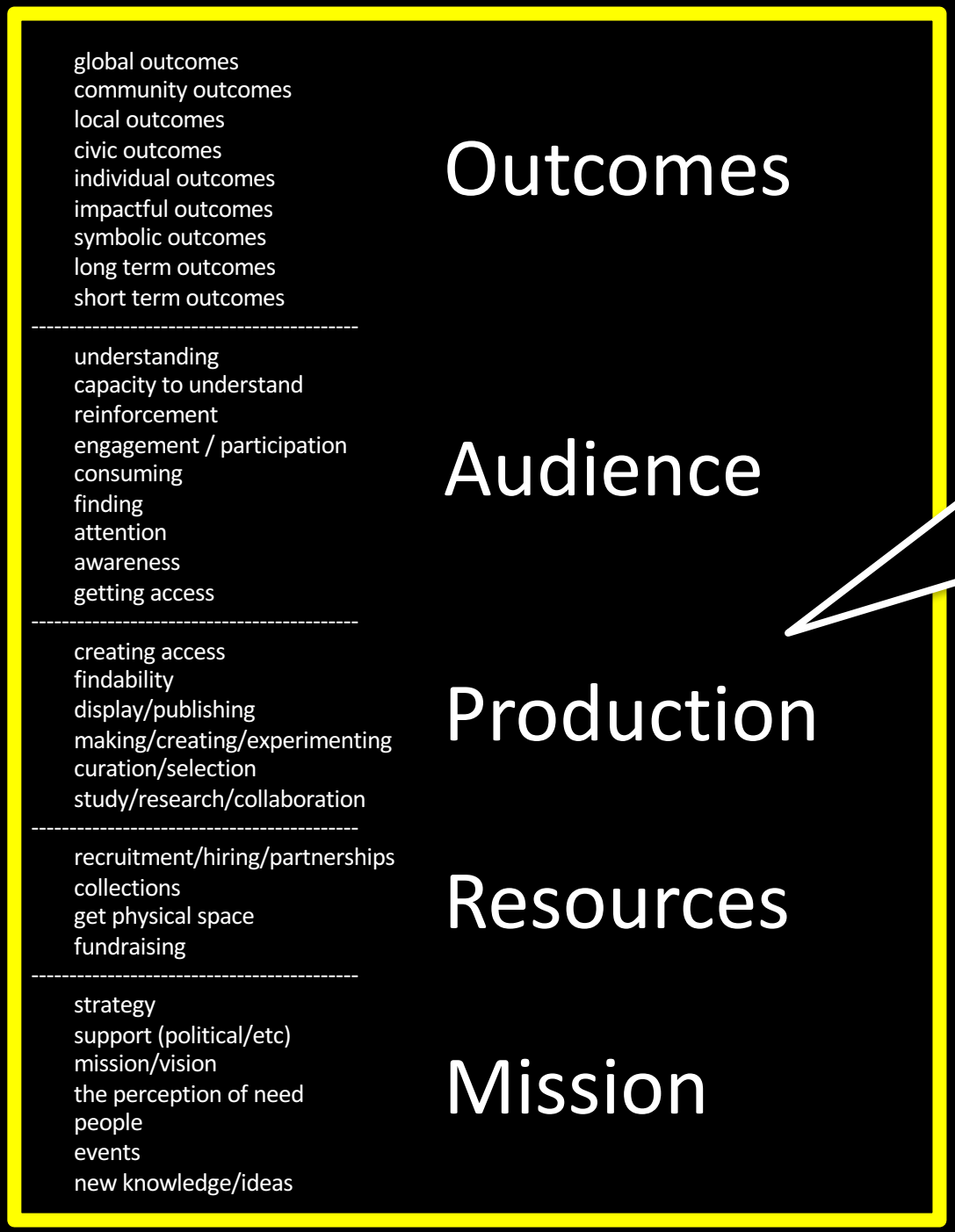
new knowledge/ideas

Mission



global outcomes
community outcomes
local outcomes
civic outcomes
individual outcomes
impactful outcomes
symbolic outcomes
long term outcomes
short term outcomes

Outcomes

---

understanding
capacity to understand
reinforcement
engagement / participation
consuming
finding
attention
awareness
getting access

Audience

---

creating access
findability
display/publishing
making/creating/experimenting
curation/selection
study/research/collaboration

Production

---

recruitment/hiring/partnerships
collections
get physical space
fundraising

Resources

---

strategy
support (political/etc)
mission/vision
the perception of need
people
events
new knowledge/ideas

Mission

Almost 100% open to new actors and new ways of working

UN LIVE

MUSEUM FOR HUMANITY

Welcome to the United Nations. It's your world.

UNITED NATIONS

MEETINGS COVERAGE AND PRESS RELEASES

PRESS RELEASE

SECRETARY-GENERAL > STATEMENTS AND MESSAGES

SG/SM/18222
24 OCTOBER 2016

Secretary-General Welcomes Plans to Create New Museum about United Nations in Copenhagen as Instrumental for Supporting Sustainable Development Goals

The following statement was issued today by the Spokesman for UN Secretary-General Ban Ki-moon:

The Secretary-General welcomes the announcement today of the creation of the Museum for the United Nations — UN Live.

This new, global museum, headquartered in Copenhagen, will engage audiences on the work and values of the United Nations through online and other exhibits in locations around the world.

EVERYONE MEANS EVERYONE

EVERYONE MEANS EVERYONE

Thank you!

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