

You said “open”?

J.-C. Guédon

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“A development method ... that harnesses the power of distributed peer review and transparency of process. The promise of open ... is better quality, higher reliability, more flexibility, lower cost, and an end to predatory vendor lock-in”

You said “open”?

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“A development method **of software** that harnesses the power of distributed peer review and transparency of process. The promise of **open source** is better quality, higher reliability, more flexibility, lower cost, and an end to predatory vendor lock-in” (Eric Raymond)

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What is science? Scholarship?

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As already seen:

“A **development method** ... that harnesses the power of **distributed peer review** and **transparency of process**. The promise of open ... is **better quality**, **higher reliability**, **more flexibility**, **lower cost**, and an end to **predatory vendor lock-in**”

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Consequence?

The phrase “**open science**” is a

TAUTOLOGY

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Why then use a **tautology**
to describe
what is (**or should be**) **obvious**?

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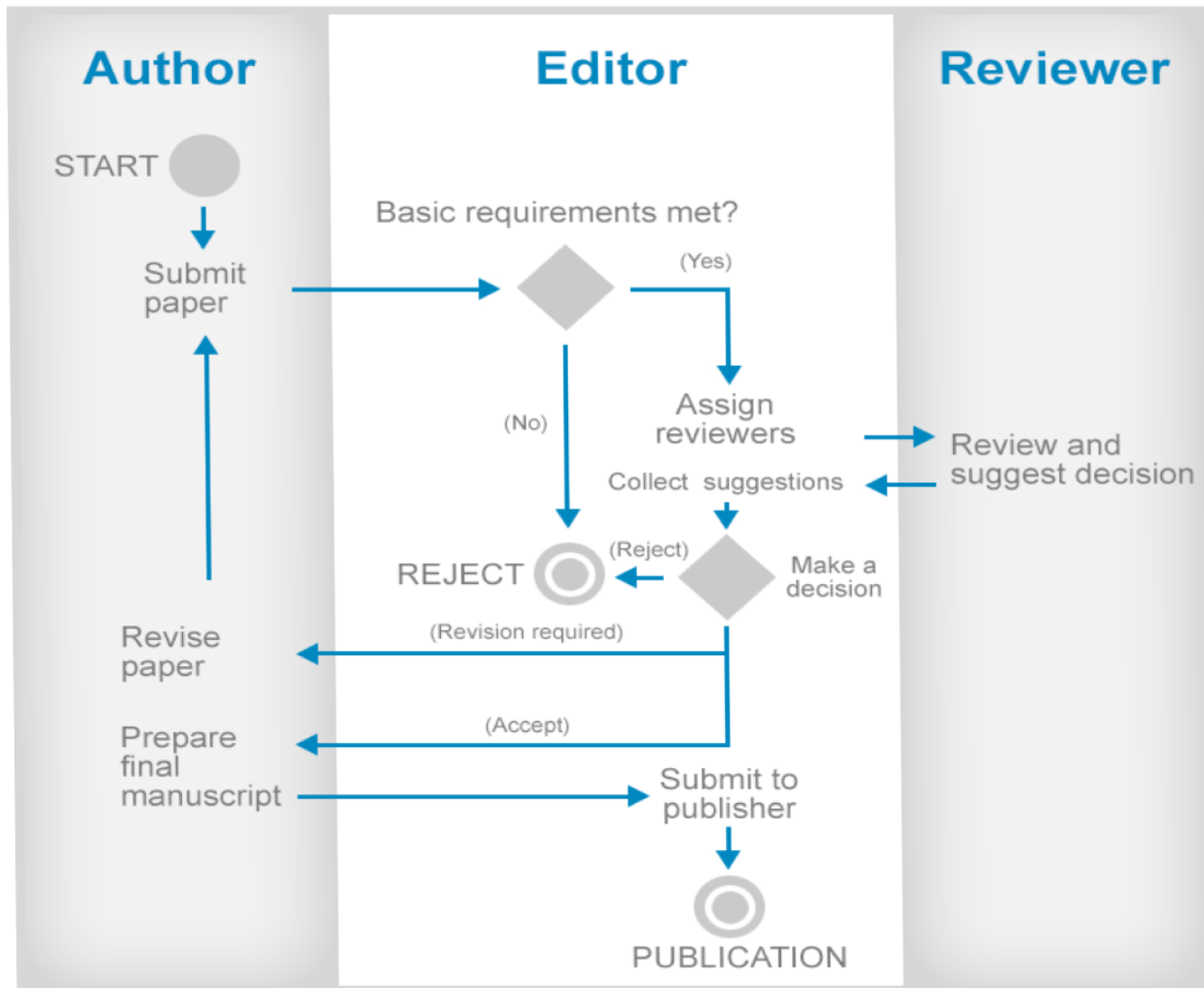
Possible answer:

Science is not working
as it should!

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Then, **where** do you **publish**?

You will be **evaluated**

by **where** you **publish**,

rather than by **what** you **publish**!

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Imagine, for a minute, how it would be if the software developers that built **all the Internet protocols**, **Linux**, **Apache**, all the **GNU** software, **Mozilla**, **Libre Office**, etc. etc. had **submitted**, **waited**, **re-submitted**, transferred their rights, **waited**, **waited some more**, until their precious contribution emerged in a **package** available only against **MONEY**

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We would be without the Internet

Instead, we would be with the
network equivalents of Microsoft:
Minitel, Prestel, Captain, BTX, etc.

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Obviously, there is a **significant cost**

associated

with the **closed mode of development**

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Hence the tautology

of

Open Science:

It underscores an obvious need

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But what is **open**, really ?

e.g. **why do we distinguish between**

“Open Office” and “Libre Office”?

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“Open science”

often turns into

a **merely descriptive** phrase,

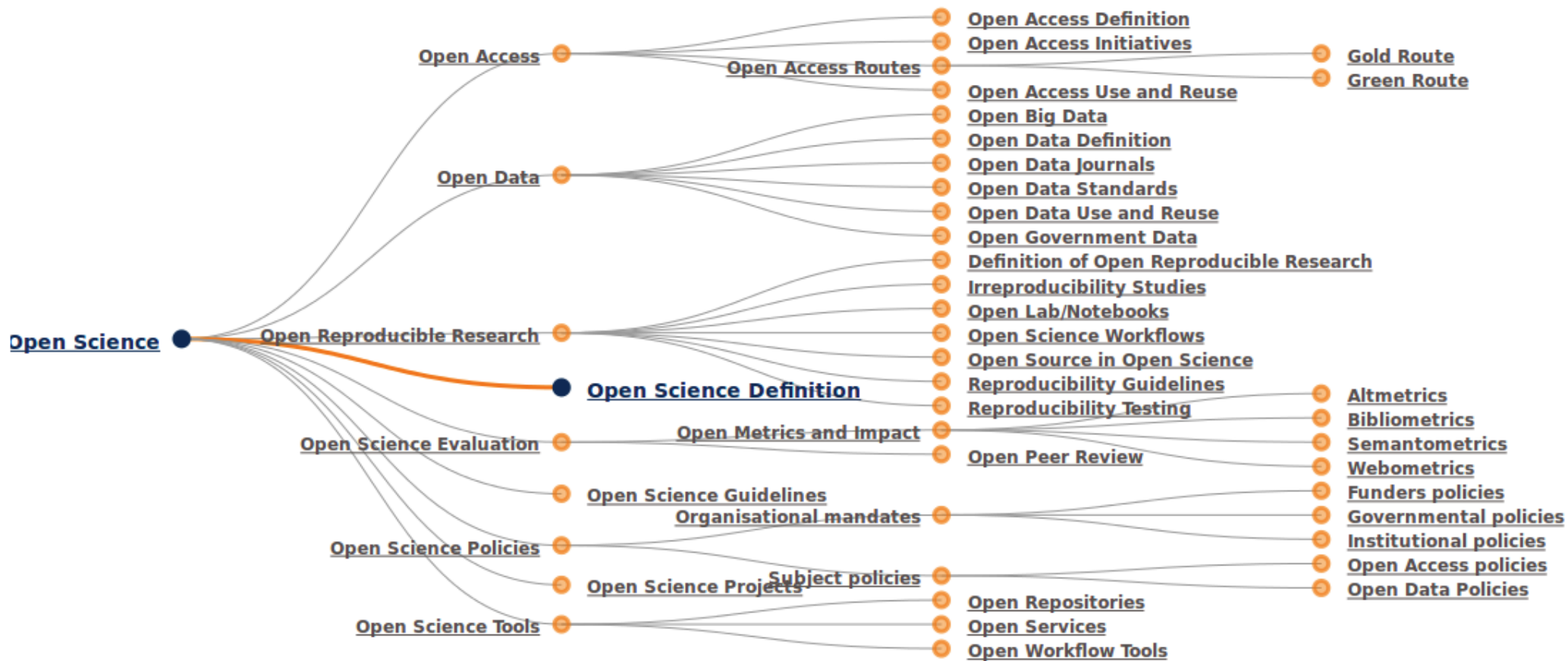
and may thus become little more than a

BUZZWORD

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In FOSTER, open science is defined as follows:

“**Open Science**

is the practice of science in such a way

that others can **collaborate** and **contribute**,

where research data, lab notes and other research processes

are **freely available**, under terms that enable

reuse, redistribution and **reproduction**

of the research and its underlying **data** and **methods**.”

<https://www.fosteropenscience.eu/foster-taxonomy/open-science-definition>

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Let me offer my definition of **FREE** science

“Open [Freedom] is the ~~practice~~ **essence** of science:
~~in such a way that~~ **TRUSTED** others ~~can~~ **freely**
collaborate and **contribute**. Research data, lab notes,
software and other research processes are [also]
~~freely: available~~, under terms that enable **reuse**,
~~redistribution~~ and ~~reproduction~~ of the research and
its underlying **data** and **methods**. [Free to access, free
to disseminate, free to re-use.]”

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Definition of **FREE** science

“**Freedom** is the **essence** of science. In free science, **TRUSTED** others freely **collaborate** and **contribute**.
Research data, lab notes, software and other elements of
research processes

are also **FREE:**

Free to **access**, **free** to **disseminate**, **free** to **re-use**”

You said “open”?

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In free science,

The **central currency** is not
prestige or visibility;

It is **TRUST**

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If you **climb** on the shoulders of
“**giants**”* (and not-so-giant people),
you must **trust** the **shoulders**

*Newton

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The present **communication system**:

- **Neglects shoulders (Dr. Sambhu Nath De)**
- **Neglects scientific issues (Ebola & Zika)**
 - **Overemphasizes competition**
 - **Undervalues cooperation**
- **Mixes scientific and commercial objectives**

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THE SOLUTION?

- **Create** new forms of **scientific value**
- **Reform** evaluation **processes**
(in particular **peer review procedures**)
- **Build** evaluation **hubs** outside **rich countries**
 - **Etc.**

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MOLTE GRAZIE !