CNCF Governance Structure

The CNCF is composed of three main bodies:

Governing Board (GB)

- responsible for marketing
- other business oversight
- budget decisions

Marketing Committee

Technical Oversight Committee (TOC)

- Defining and maintaining technical vision

Special Interest Groups (SIGs)

End User Community (EUC)

- Providing feedback from companies and startups to improve cloud-native ecosystem

End User SIGs

User Groups

Memberships are composed of: Platinum, Gold, Silver, End User, and Academic / Non-Profit members

CNCF Memberships

Platinum members:
- Appoint one (1) representative to the CNCF Governing Board.
- Appoint one (1) representative as a voting member in any subcommittees or activities of the Governing Board.
- Enjoy most prominent placement in displays of membership including on the website.

Gold members:
- Appoint one (1) representative to the CNCF Governing Board per every five (5) Gold members, up to three (3) maximum Gold representatives

Silver members:
- Appoint one (1) representative to the CNCF Governing Board per every ten (10) Silver members, up to three (3) maximum Silver representatives.

End User members:
- Participate in the End User Advisory Community as described below
- Nominate one (1) representative to the End User Technical Advisory Board

Academic and Non-Profit members:
- participation is limited to academic and non-profit institutions respectively and requires approval by the Governing Board
- entitled to identify their organization as members supporting the mission of CNCF and any other rights or benefits as determined by the Governing Board

CNCF Memberships

Platinum members:
$370,000 USD at 3-Year minimum contract

Gold members:
Up to $120,000 USD annually

Silver members:
- $7,000 - Under 50 employees
- $10,000 - 50 – 99 employees
- $15,000 - 100 – 499 employees
- $25,000 - 500 – 999 employees
- $35,000 - 1,000 – 2,999 employees
- $45,000 - 3,000 – 4,999 employees
- $50,000 - 5,000 employees+

Academic and Non-Profit members:
- $1000 / $500 annually

End User members:
- No Cost

CNCF Governing Board (GB) – Responsibilities

- approve a budget directing the use of funds raised from all sources of revenue to be used for technical, marketing or community investments that advance the mission of the CNCF
- elect a Chair of the Governing Board to preside over meetings, authorize expenditures approved by the budget and manage any day-to-day operations
- vote on decisions or matters before the Governing Board
- define and enforce policy regarding intellectual property (copyright, patent or trademark) of the foundation
- direct marketing and evangelism efforts through events, press and analyst outreach, web, social and other marketing efforts
- oversee operations and qualification efforts
- establish and oversee any committees created to drive the mission of CNCF
- establish and execute a brand compliance program, if any, based on the CNCF requirements, which may include a certification test, to use the brand marks established by the TOC
- adopt guidelines or a policy for use of the trademark
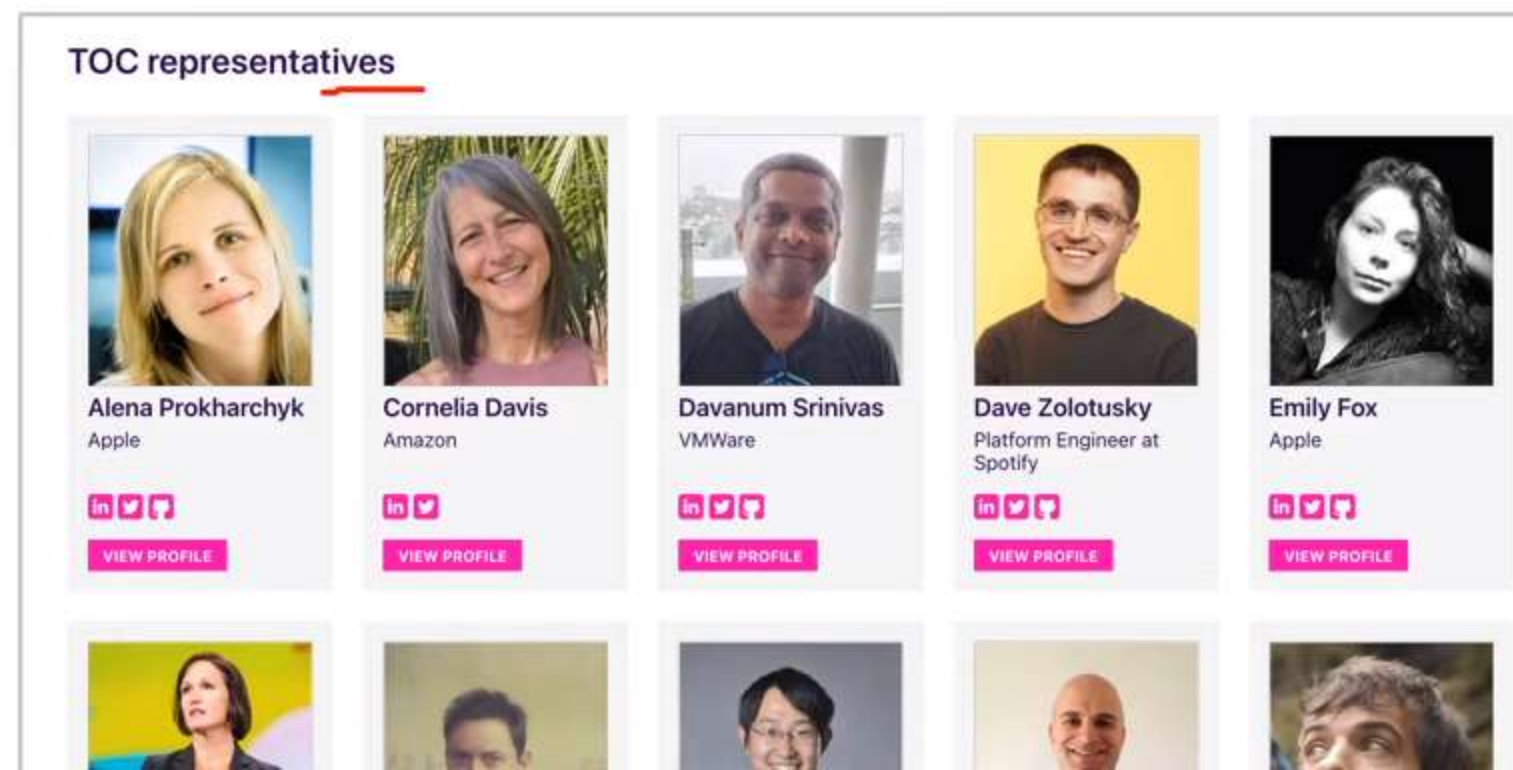- provide financial governance overall

Technical Oversight Committee (TOC) ==provides technical leadership to the cloud native community==

There responsibilities include:
- defining and maintaining the technical vision for the Cloud Native Computing Foundation,
- approving new projects and creating a conceptual architecture for the projects,
- aligning projects and removing or archiving projects,
- accepting feedback from end user committee and mapping to projects,
- aligning interfaces to components under management (code reference implementations before standardizing), and

TOC representatives

Alena Prokharchyk	Cornelia Davis	Davanum Srinivas	Dave Zolotusky	Emily Fox
Apple	Amazon	VMWare	Platform Engineer at Spotify	Apple
VIEW PROFILE	VIEW PROFILE	VIEW PROFILE	VIEW PROFILE	VIEW PROFILE

Special Interest Groups (SIGs)

Special Interest Groups (SIGs) are <mark>specialized committees</mark> that work under (report to) the TOC.

SIGs include around:
- Traffic
- Observability
- Governance
- App Delivery
- Core and Applied Architectures
- Security

SIGs are long-lived groups.

led by recognised and relevant experts

- Strengthen the project ecosystem to meet the needs of end users and project contributors.
- Identify gaps in the CNCF project portfolio. Find and attract projects to fill these gaps.
- Educate and inform users with unbiased, effective, and practically useful information.
- Focus attention & resources on helping foster project maturity, systematically across CNCF projects.
- Clarify relationship between projects, CNCF project staff, and community volunteers.
- Engage more communities and create an on-ramp to effective TOC contribution & recognition.
- Reduce some project workload on TOC while retaining executive control & tonal integrity with this elected body.
- Avoid creating a platform for politics between vendors.

CNCF End User Community (EUC)

CNCF End Users are:
- Individual or organizations **that use cloud-native technologies**
- But they **do not sell** cloud-native services

Examples of <u>NOT</u> End Users
- Vendors
- Consultancies
- training partners
- telcos

The EUC acts as a feedback loop between the those using cloud-native and those maintaining and building cloud-native solutions.

End User Community is an eco-system of:
- Finding cloud-native talent
- Finding local User Groups
- Meet project maintainers
- Contribute to the CNCF Technology Radar

End User Technology Radar

A technology radar is an ==opinionated guide to a set of emerging technologies==.

The CNCF End User Technology Radar is **intended for a technical audience** who want to understand what solutions end users use in cloud native, and which they recommend

Assess

The CNCF End User Community has tried it out, and we find it promising. We recommend having a look at these items when you face a specific need for the technology in your project.

Trial

The CNCF End User Community has used it with success, and we recommend you have a closer look at the technology.

Adopt

The CNCF End User Community can clearly recommend this technology. We have used it for long periods of time in many teams, and it has proven to be stable and useful.
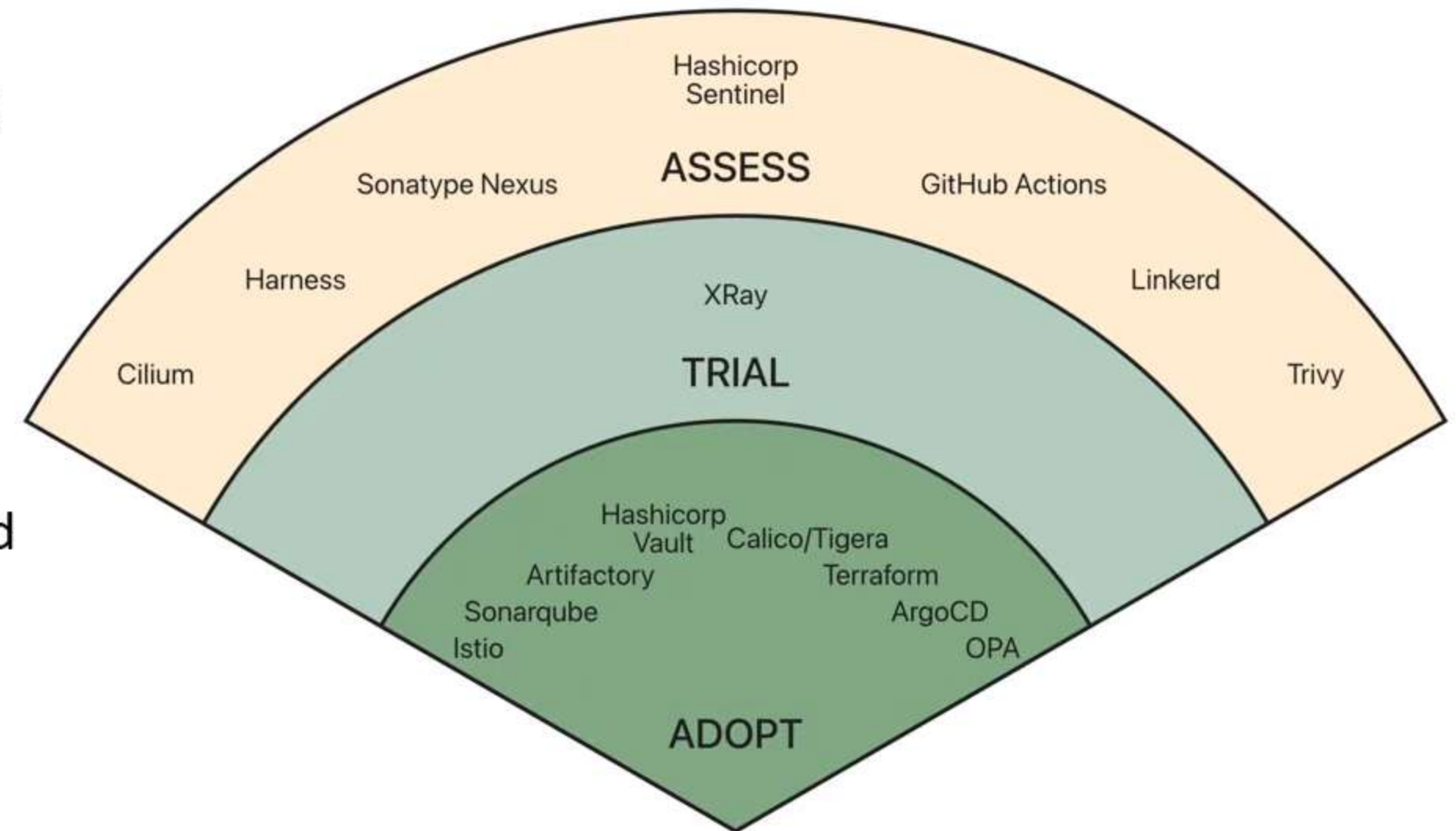
CNCF Charter

The CNCF Charter is <mark>**a public document**</mark> that contains:
- The organization structure of the CNCF
- The mission and values of the CNCF
- The description of the membership tiers
- The definition of CNCF projects
- CNCF governing Policies
- Reference to Codes of Conduct
- General definitions in relation to the CNCF
- General Rules

It's a big document to help define and guide the CNCF.

CNCF Values

The CNCF will strive to adhere to the following principles

Fast is better than slow — enables projects to progress at high velocity to support aggressive adoption by users.

Open
Open and accessible, and operates independently of specific partisan interests.
Accepts all contributors based on the merit of their contributions.
Technology must be available to all according to open source values.
The technical community and its decisions shall be transparent.

Fair — avoid undue influence, bad behavior or "pay-to-play" decision-making.

Strong technical identity — achieve and maintain a high degree of its own technical identify shared across the projects

Clear boundaries
establish clear goals and what the non-goals to allow projects to effectively co-exist.
help the ecosystem understand where to focus for new innovation.

Scalable
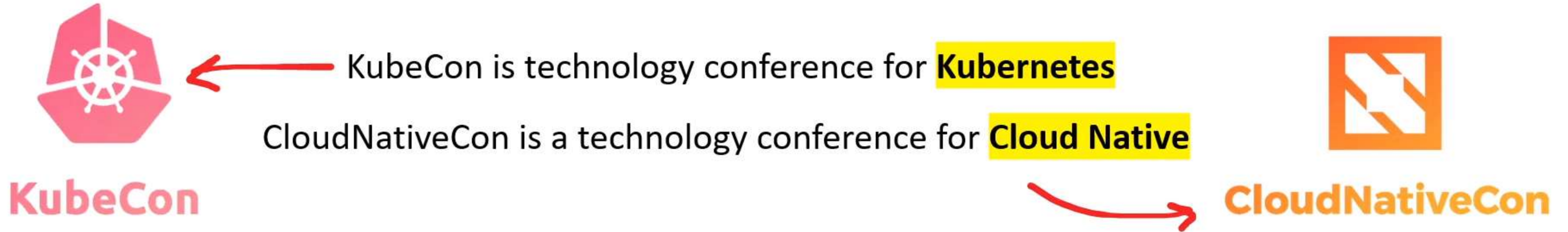support all scales of deployment, from startups, to service providers to enterprises.

Platform Agnostic
The specifications developed will not be platform specific such that they can be implemented on a variety of architectures and operating systems.

KubeCon + CloudNativeCon

KubeCon is technology conference for ==Kubernetes==

CloudNativeCon is a technology conference for ==Cloud Native==

KubeCon

CloudNativeCon

KubeCon and CloudNativeCon are essentially a single conference now commonly referred to as:

- KubeCon + CloudNativeCon

The conference happens twice a year:
- KubeCon + CloudNativeCon (North America)
- KubeCon + CloudNativeCon (Europe)

2018: 8,000 attendees (in-person)
2019: 12,000 attendees (in-person)
2020: 22,816+ attendees (virtual)
2021: 17,000 attendees (4K in-person)

IstioCon
ServiceMeshCon
GitOpsCon

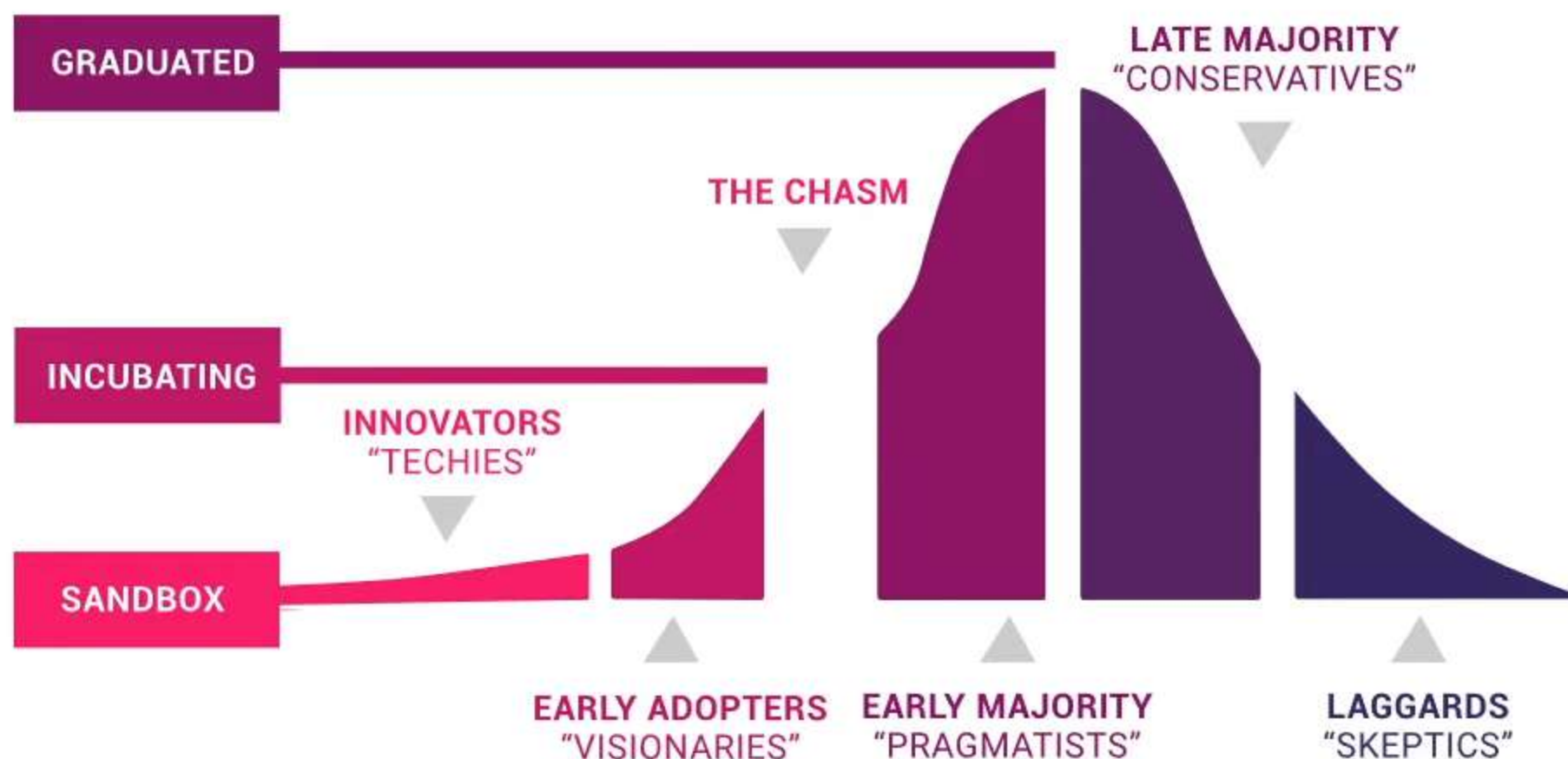Adjacent conferences at North America

CNCF Projects

CNCF projects are technologies and managed by the CNCF.
Many CNCF projects are developed by external tech companies and
then are handed over to the CNCF for long-term support

https://www.cncf.io/projects/

CNCF projects are categorized based on their "Maturity level" :

Graduated
Its production ready for enterprises

Incubating
The API might be rapidly changing. May have incomplete to be adopted by large enterprises.

Sandbox
Experimental, prototypes, don't bet your security review on these projects. There are so many they are not listed on the project page.
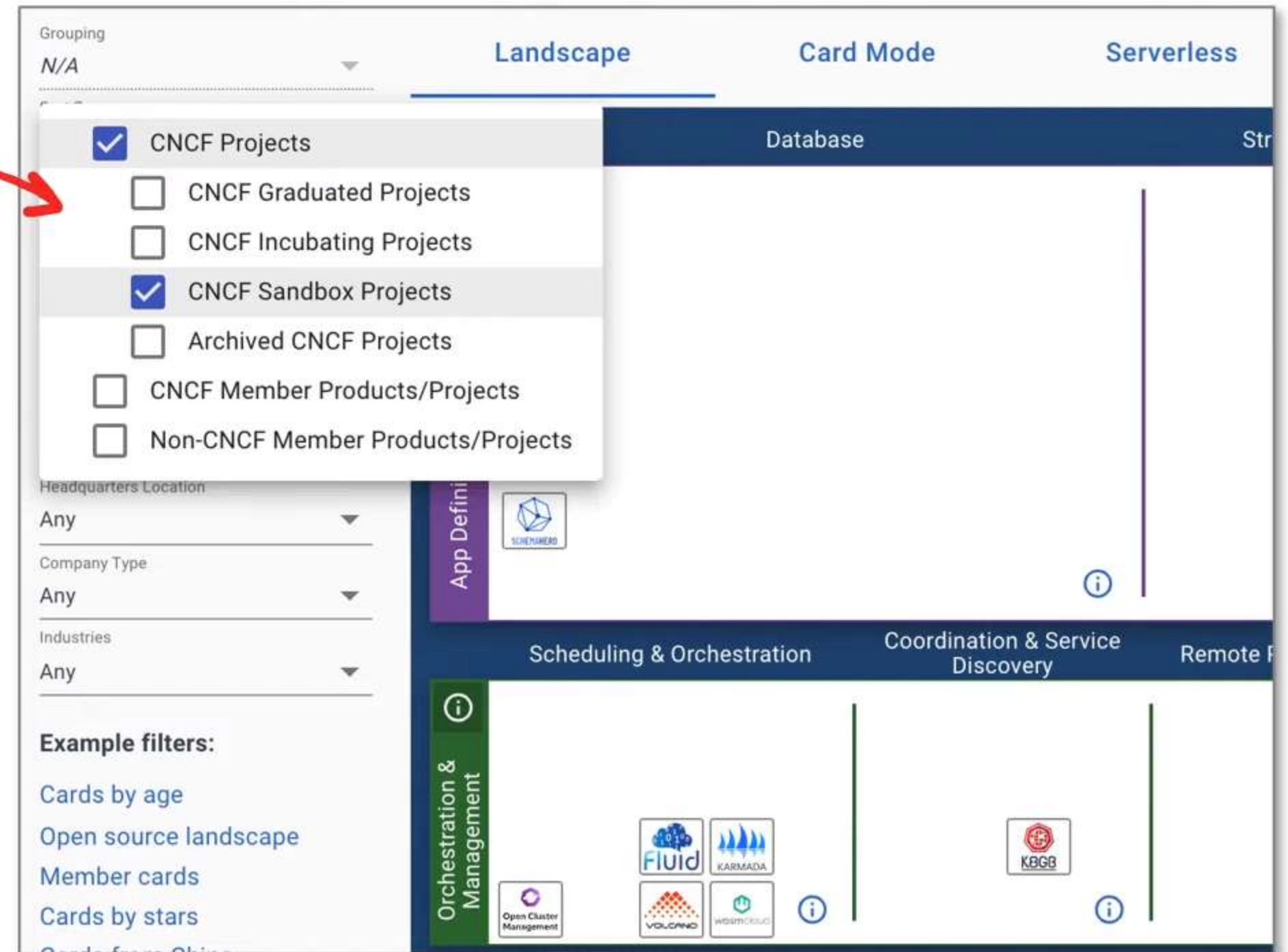
The Maturity level is based on Crossing the Chasm diagram from the 1991 book **Crossing the Chasm.**

CNCF Projects – Sandboxes

One way to locate Sandbox CNCF Projects is to filter based on **CNCF relation**

Grouping
N/A

Landscape | Card Mode | Serverless

☑ CNCF Projects
☐ CNCF Graduated Projects
☐ CNCF Incubating Projects
☑ CNCF Sandbox Projects
☐ Archived CNCF Projects
☐ CNCF Member Products/Projects
☐ Non-CNCF Member Products/Projects

Headquarters Location
Any

Company Type
Any

Industries
Any

Example filters:

Cards by age

Open source landscape

Member cards

Cards by stars

Database

App Defini...

Scheduling & Orchestration | Coordination & Service Discovery | Remote

Orchestration & Management

CNCF Projects

Project Stages

Sandbox
Experiments
Neutral collaboration

Incubation

Graduation

Low barrier
Low reward
Not a compulsory step!

Significant barrier
This is where majority
of DD happens

"Obvious path"
from incubation to
graduation

CNCF Projects

Sandbox Process

CNCF Projects

Incubation Process

```
Project
proposal  →  TOC              →  SIG                →  Due Diligence
             Incubation          Presentation          Tech & gov
             Sponsor             (recorded)            User interviews
             steps forward       Recommendation
                                                              ↓
Incubation  ←  TOC vote  ←  DD Review        ←  Due Diligence
                            TOC review
                            presentation & DD
                            Public RFC
```
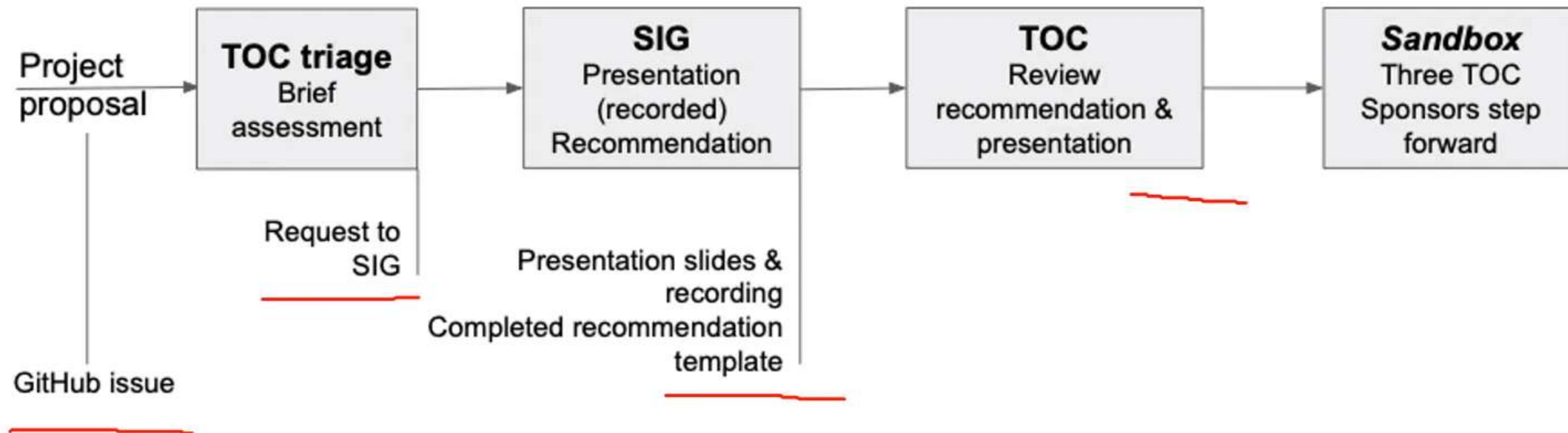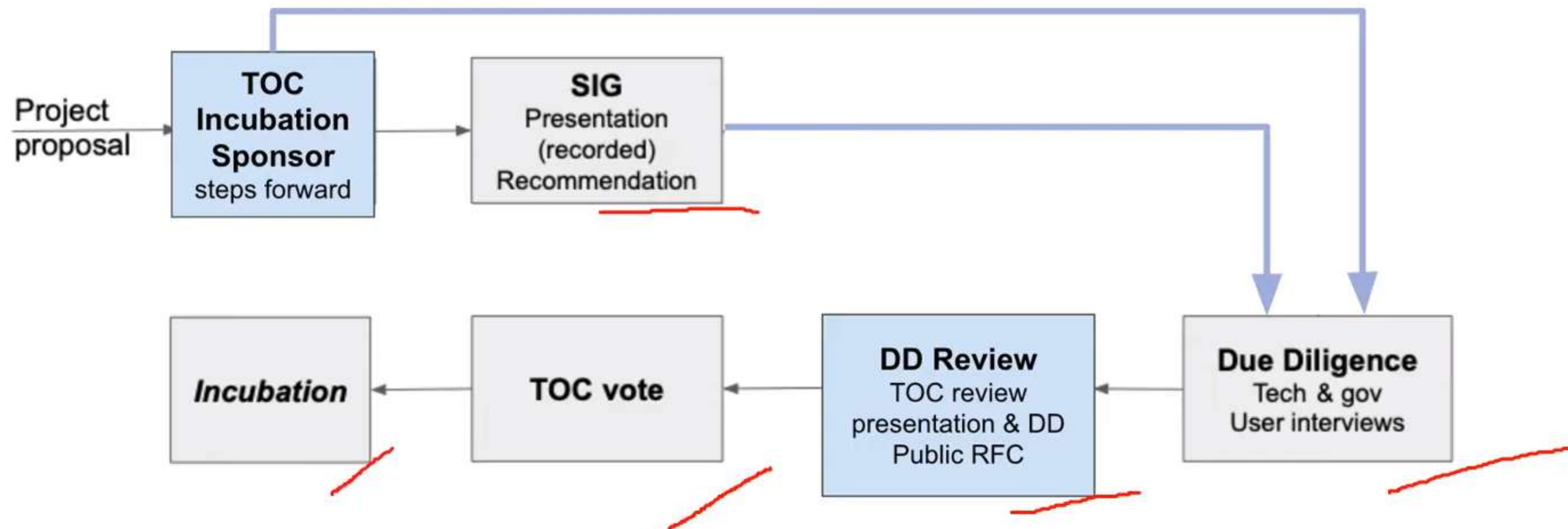
CNCF Projects

There is at least one Graduated CNCF project generally
for each broad Cloud-Native category

Container Runtime
ContainerD

Coordination & Service Discovery
CoreDNS

Service Proxy
Envoy

Coordination & Service Discovery
etcd

Logging
Fluentd

Container Registry
Harbor

Application Definition & Image Build
Helm

Tracing
Jaeger

Scheduling & Orchestration
Kubernetes

Service Mesh
Linkerd

Security & Compliance
Open Policy Agent (OPA)

Monitoring
Prometheus

Security & Compliance
The Update Framework (TUF)

Cloud Native Storage
Rook

Database
TiKV

Database
Vitess