

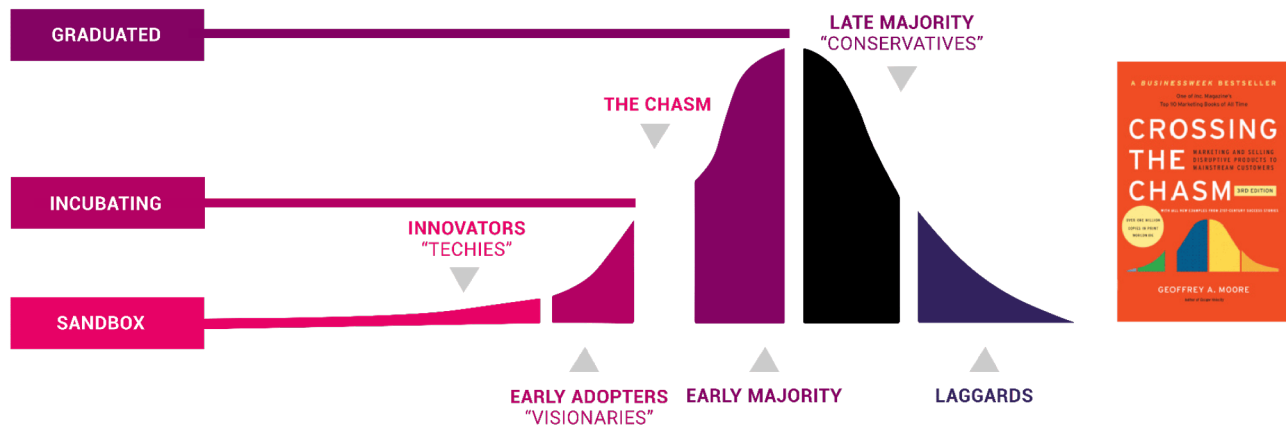


CAMARA
THE TELCO GLOBAL API ALLIANCE

Proposal for API Sub Project Lifecycle and the relation with API Versions

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Recap: CNCF Example

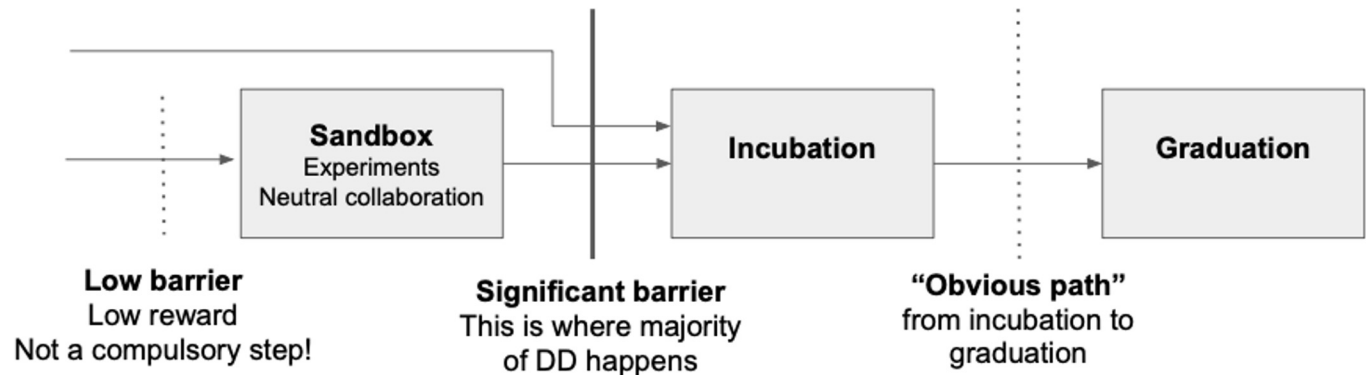


<https://www.cncf.io/project-metrics/>

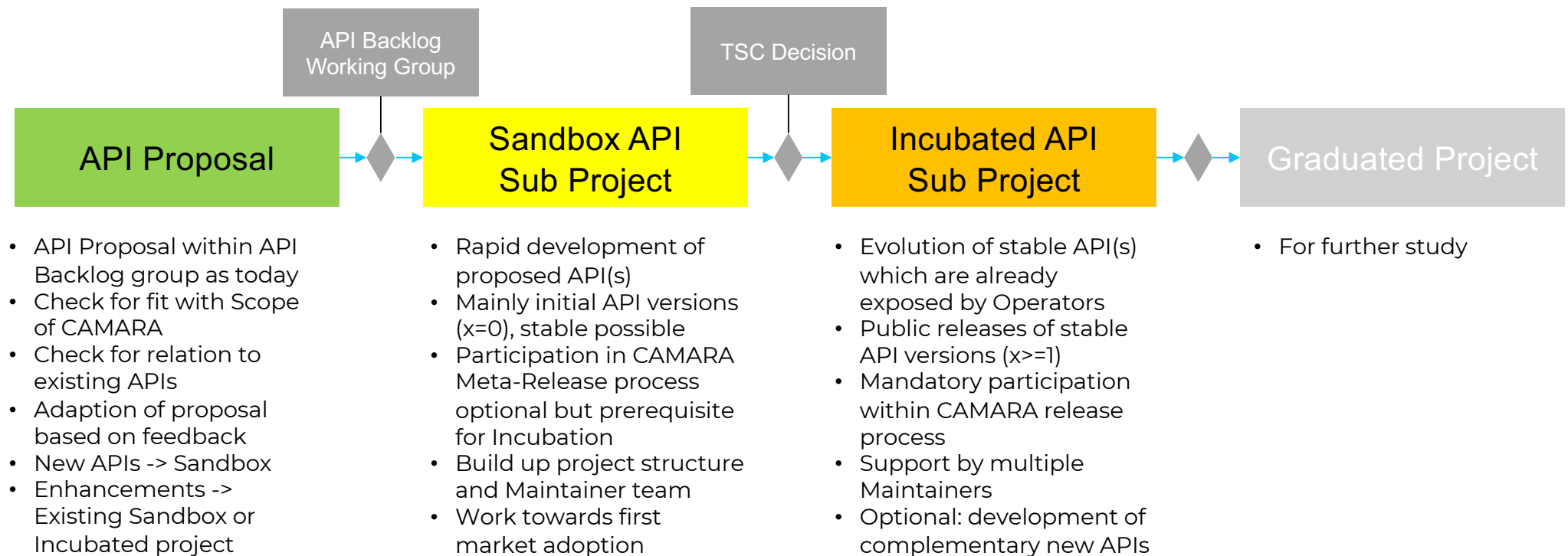
<https://github.com/cncf/toc/tree/main/process>

Four stages within project lifecycle:

- **Sandbox** - ... early in their life
- **Incubation** - growing maturity projects ...
- **Graduated** - highly mature, robust projects
- **Archived** - inactive or low activity projects or not recommend for use for various reasons (project specific)



Proposed CAMARA Sub Project Lifecycle



Relation of Sub Project level & API Versions



- Sub project maturity level and API versioning in “Initial” and “Stable” are two different concepts, but connected
- APIs can have in public-releases (see [API Release Process](#)):
 - **Initial API versions**, numbered as 0.x.y –indicating that (breaking) changes to be expected before a stable version will get available. Meant for implementations in labs or for early customer interactions to get feedback towards the first stable version
 - **Stable API versions**, numberd as x.y.z with $x \geq 1$ – followed the defined Release Process (with alpha and release candidate versions in pre-releases). Meant for production and customer offers. Further enhancements shall avoid breaking changes as much as possible (breaking changes are increasing the major version)
- **Sandbox Sub Projects**
 - Rapid development of new APIs, public-releases contain mainly Initial API versions
 - Stable API Version can be released if the pre-requisites are fulfilled, including that a previous Initial API version has been implemented and certified by an Operator
- **Incubated Sub Projects**
 - Maintainting at least one API which has been adopted by n Operators in m markets
 - Public-releases of Incubated Sub Projects are mainly Stable API versions
 - Optional: development of complimentary new APIs with Initial API versions

Criteria for "Incubation" of Sub Projects



Draft within <https://wiki.camaraproject.org/display/CAM/API+Sub+Project+Maturity+Levels>

Summary of criteria:

- Participated in at least 1 meta-release cycle (could be the one where they get incubated at the end)
- Regular scheduled meetings, adopted CAMARA tools, using linting, protected branches etc
- Approved scope in API Backlog, User Stories defined
- Maintainers from at least 3 distinct companies
- At least 2 Codeowners from distinct companies
- A public-release API version of a Sandbox Sub Project has been launched by N operators in M markets in production

