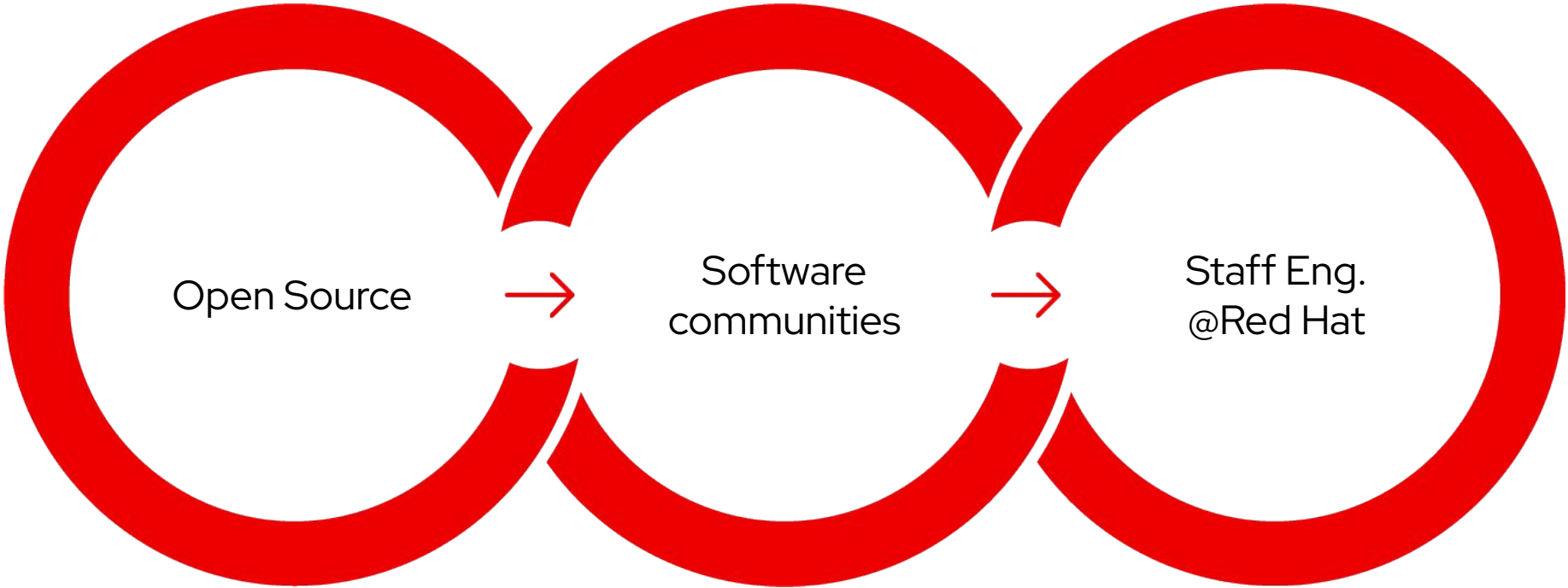


Unlocking Career Growth Through Open Source

Eder Ignatowicz

Senior Principal Software Engineer

What I do for living?





Integrated MLOps platform

Create and deliver GenAI and predictive models at scale across hybrid cloud environments.



Model development

Provides flexibility and composability by supporting multiple AI/ML libraries, frameworks, and runtimes.



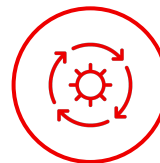
Model serving and monitoring

Deploy models across any OpenShift footprint and centrally monitor their performance.



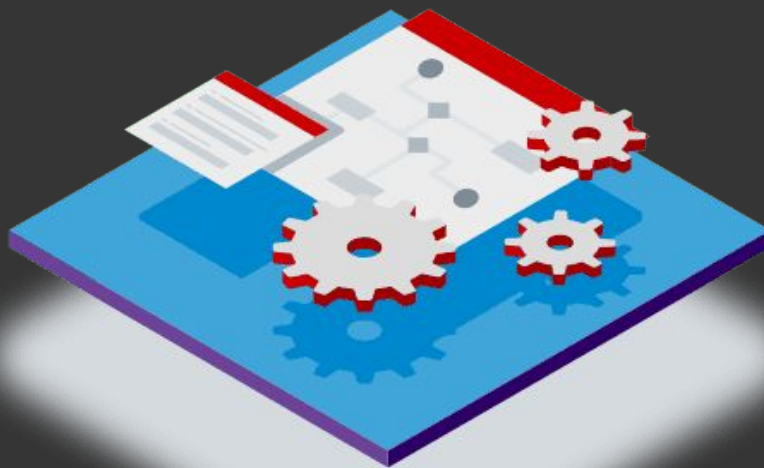
Lifecycle management

Expands DevOps practices to MLOps to manage the entire AI/ML lifecycle.



Increased capabilities / collaboration

Create projects and share them across teams. Combine Red Hat components, open source software, and ISV certified software.





"I wish I had heard this information
when I was starting out"







People get better at whatever
they spend time on.

Challenges of aspiring technologists outsiders of a Tech Scene



Lack of understanding of the career path

No clear path beyond senior.

Lack of complex challenges

Mostly CRUD work, tech skills are commodities.

Lack of role models and mentors

Lack of guidance in the right direction as we make career decisions

Lack of opportunities

Mostly of career growth opportunities requires being on Managers Path

How do I keep growing in
my career as an individual
contributor?

What is beyond senior level?



The Maze to keep on Technical Track



You should figure out your path by yourself

Frustrating and bias-ridden approach to career development

Mysticism of the role

What do seasoned professionals do?

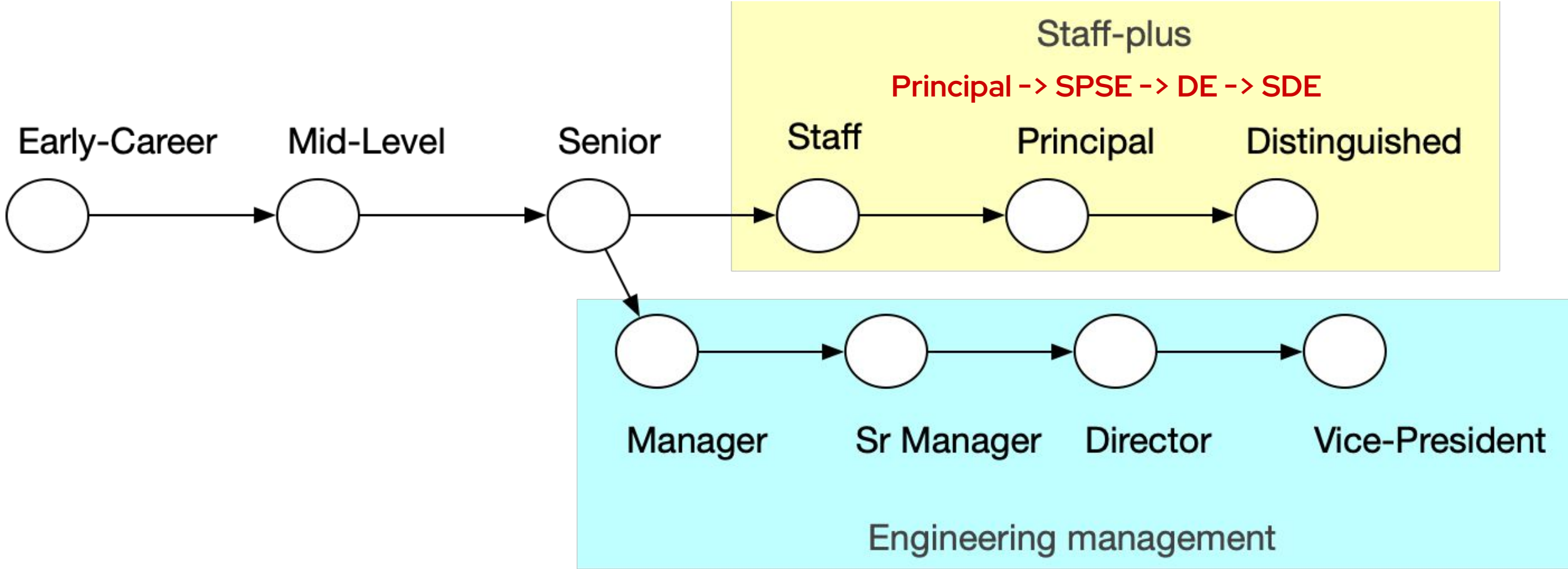
Lack of clear role definition

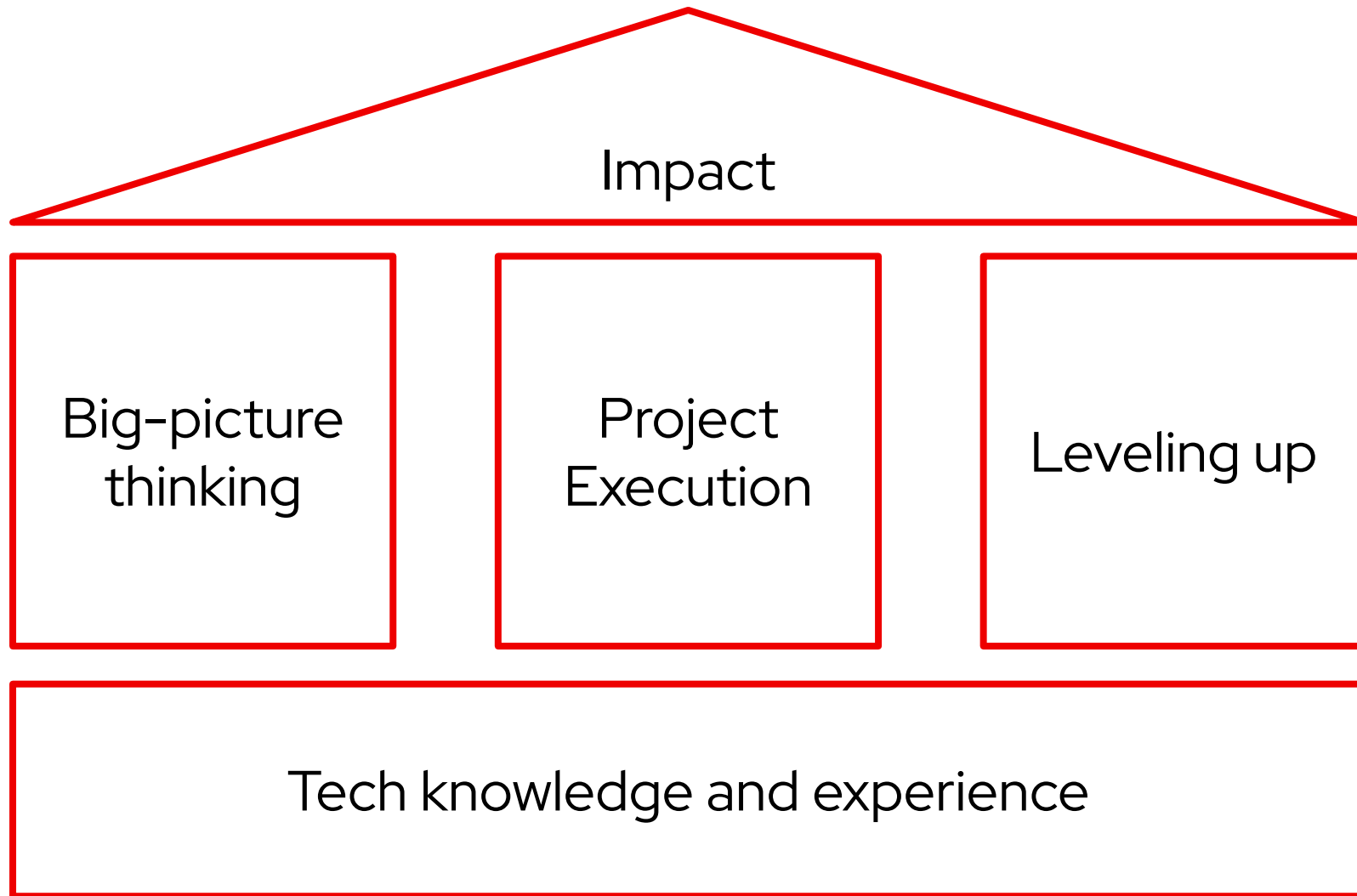
Each company has a different view of the role

Lack of required skills

How do you acquire skills to become a lead to successful technical leader?

What is a Staff-Plus Engineer?



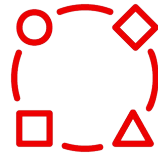


Staff engineer archetypes



The Team Lead

Guides the approach and execution of a particular team or group of teams within a focused area.



Architect

Responsible for the direction, quality and approach within a critical area, both today and stretching into the multi-year future horizon



Solver

Digs deep into arbitrarily complex problems and finds an appropriate path forward.



Right Hand

Partner and an extension of an executive-level manager, borrowing their scope and authority to operate particularly complex organizations.



How does someone thrive on the technical path?

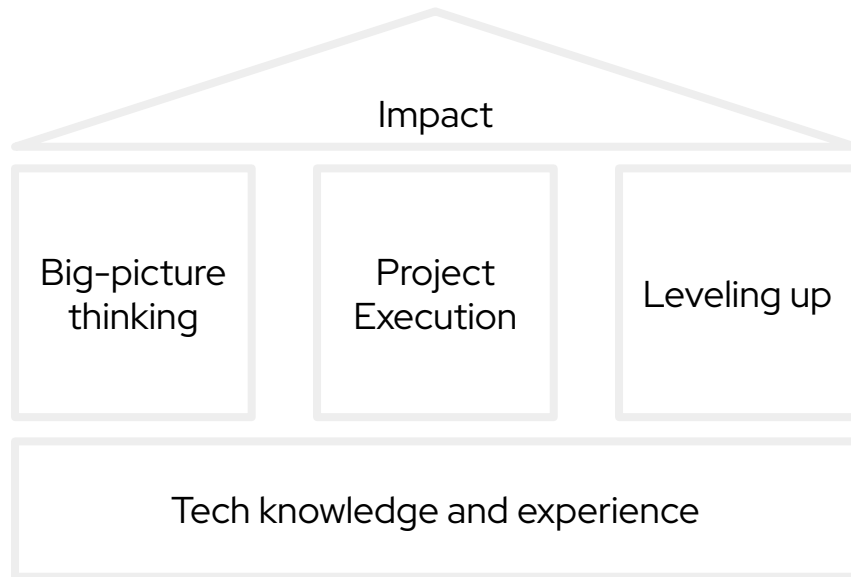
How does someone
become a successful
Staff-Plus Engineer?

How can you learn from the best engineers and access the latest technologies even if your current job or situation doesn't give you this kind of opportunity?

How did I end up as Staff+ ?

Open-Source engagement

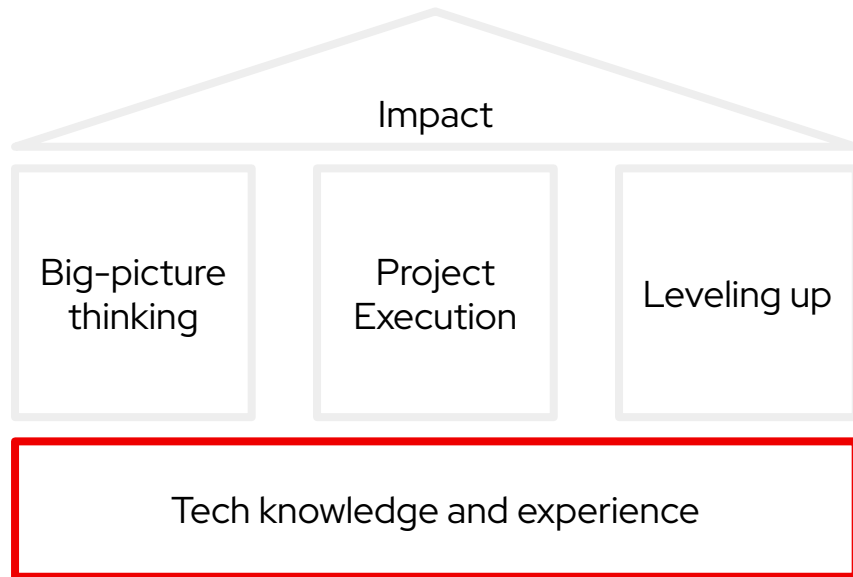
Open Source Engagement



What do I mean by engagement?

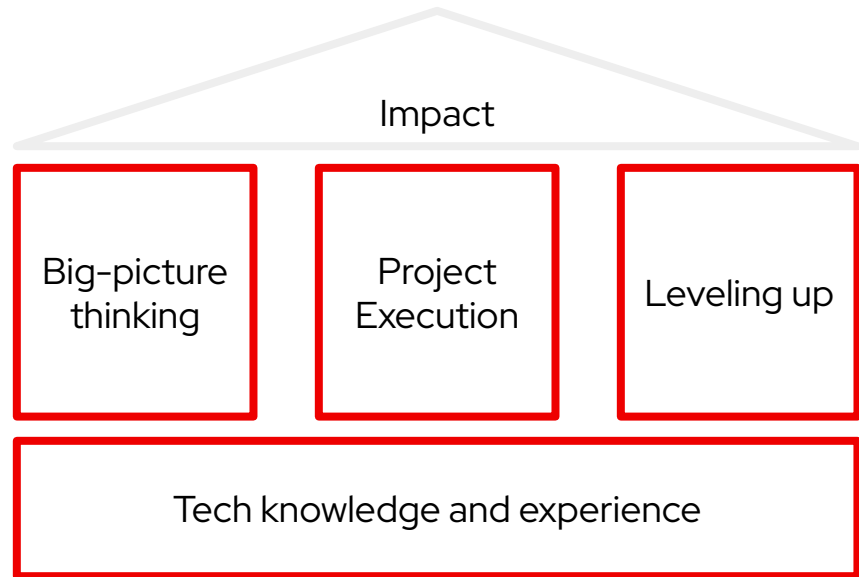
- ▶ Presence
- ▶ Contribution
- ▶ Feedback

Open Source Engagement



Contributing and engaging with open source can help you sharpen tech skills.

Open Source Engagement



But it can also help you level up towards Staff+.

Open Source Community Members Growth

I like this project!

User

Expert

I love this project!

I'm part of this project

Contributor

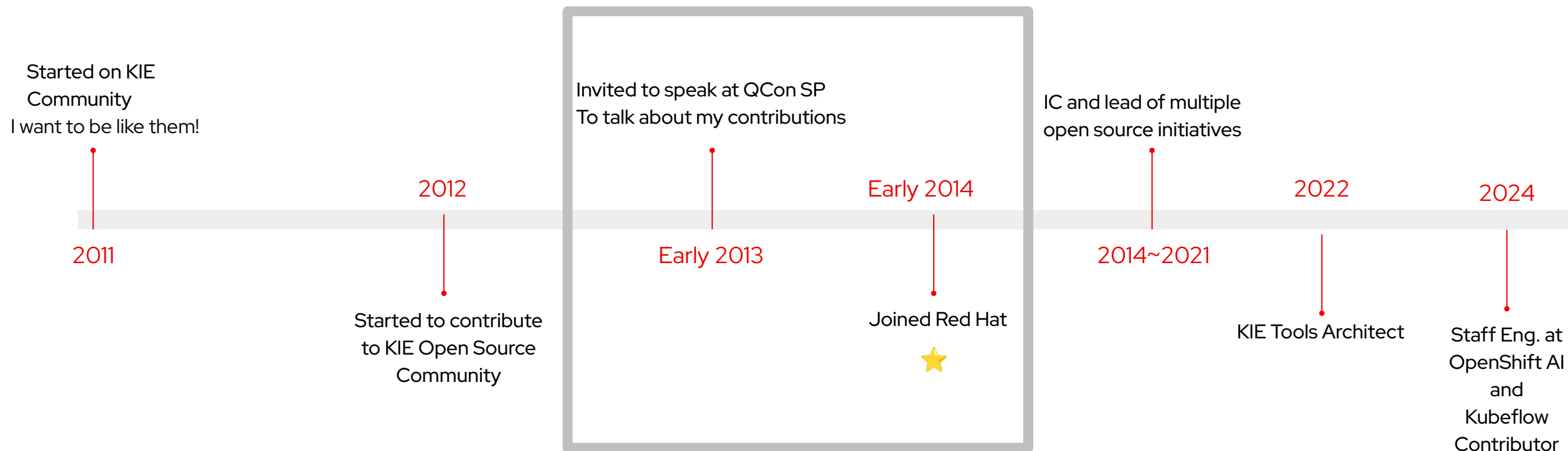
Maintainer

I keep the project and
community alive!

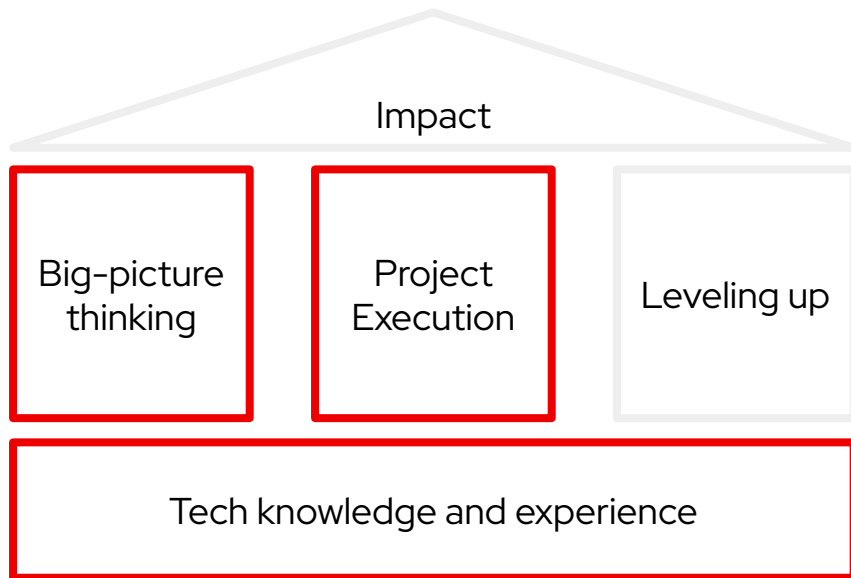
Leader

I decide the project direction

Open Source Engagement - My timeline



Written Communication



- ▶ Open Source is built async and remote
- ▶ Writing is the best format for async communication
- ▶ A critical skill for developers
 - Emails, Issues, Design Docs, etc.
- ▶ Opportunities:
 - Blog posts, Mailing list, Feature Requests, Bugs, Pull Requests

Notebooks 2.0 // Backend // List Workspaces API #60

Open ederign wants to merge 2 commits into kubeflow:notebooks-v2 from ederign:issue48

Conversation 2 Commits 2 Checks 2 Files changed 13 +663 -15

ederign commented 2 days ago - edited

```
curl -i localhost:4000/api/v1/spawner/workspace-test/workspaces

{
  "workspaces": [
    {
      "name": "jupyterlab-workspace-1",
      "kind": "jupyterlab",
      "image": "jupyterlab_scipy_190",
      "config": "tiny_cpu",
      "status": "Running",
      "home_volume": "workspace-home-pvc",
      "data_volume": "/data/my-data",
      "last_activity": "1969-12-31 19:00:00 EST"
    },
    {
      "name": "jupyterlab-workspace-2",
      "kind": "jupyterlab",
      "image": "jupyterlab_scipy_190",
      "config": "tiny_cpu",
      "status": "Running",
      "home_volume": "workspace-home-pvc",
      "data_volume": "/data/my-data",
      "last_activity": "1969-12-31 19:00:00 EST"
    }
  ]
}
```

- Other than that, this PR makes the following changes on top of the referenced PR:
1. Create workspace_handler and it's tests
 2. Add go mock for testing
 3. Create WorkspaceModel Backend type
 4. Create Workspace model and GetWorkspaces method
 5. Mocks were generated with `-/go/bin/mockgen -destination=test/mock_client.go -package=sigs.k8s.io/controller-runtime/pkg/client Client`

Kubeflow Notebooks 2.0 - Design Document

TIP: to make comments on the document, please join [kubeflow-discuss](#) on the Google account you are using.

Goals / Motivation

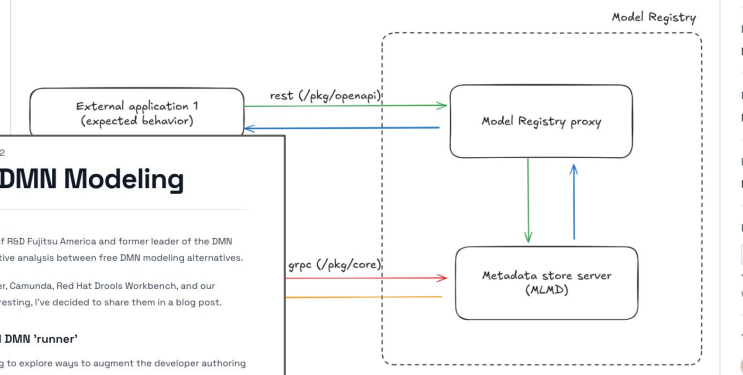
- The main idea is to change the Notebook CRD so that it is no longer just a wrapper around a Kubernetes PodSpec.
- Instead, we are making Notebooks into two separate CRDs:
 - [Workspace](#)
 - [WorkspaceKind](#)
- This foundational change enables us to:
 - Update existing notebooks after spawning, to change their "pod config" (CPU/GPU/RAM), "volumes" (storage), and "image" (what packages are installed) from options that are defined by their admin.
 - Make spawning notebooks less confusing for end-users. Pod configs stop being about specific parts of the PodSpec (e.g. tolerations, requests, limits), and become a drop-down list of user-friendly names (e.g. "Big GPU Notebook - A100 - 128GB").
 - Give admins more control over how workspaces are spawned, and the "options" which are available to users. For example, admins can now define image/pod configs for new ones, but delay the application of these up to the pod restart (during which, the interface will display a warning to users pending).

[Proposal] Make Openapi(REST) client the only endpoint #398

Open AI-Pragliola opened this issue 3 hours ago - 0 comments

AI-Pragliola commented 3 hours ago - edited

- At the moment Model Registry has two client endpoints in the codebase:
1. `pkg/openapi`: the auto generated client from the openapi schema
 2. `pkg/core`: a grpc client that talks directly with the MLMD service



Service and makes difficult changing the underlying service without major trace/log/audit what users are doing to the metadata store if they bypass from `pkg/core` to `internal/core` and do a refactoring to make it that I mean by switchable datastore is to change the config arguments that

stname

sqlite / whatever

method to use the correct datastore implementation of the interface

Comparing Choices in DMN Modeling

Tuesday, October 4, 2022

Recently in a [blog post](#), Keith Swenson, VP of R&D Fujitsu America and former leader of the DMN "Technical Compatibility Kit," did a comparative analysis between free DMN modeling alternatives. The author compared TrisoTech DMN Modeler, Camunda, Red Hat Drools Workbench, and our beloved KIE Sandbox. As the results are interesting, I've decided to share them in a blog post.

Little Background: Kie Sandbox and DMN 'runner'

Started with a prototype in late 2020, aiming to explore ways to augment the developer authoring experience for BPMN and DMN assets; [KIE Sandbox](#) gradually got traction and became an integrated part of our Tooling experience. Check out this [blog post](#) for a walkthrough of the top features of KIE Sandbox.

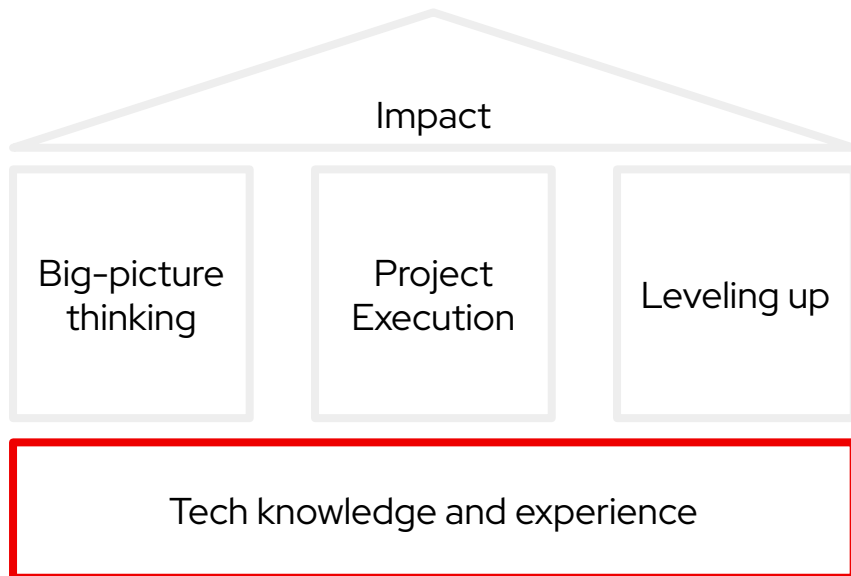
Focus on a seamless authoring experience and an instant secure feedback loop for DMN

OCI Artifact for ML model & metadata

web-based IDEs without needing to specifically integrate with a custom "kind" for their internal app, or even make changes to the IDE (IntelliJ and VSCode) with the packages and pod sizes required for the app. Admins to manage all these configs with GitOps, based on a shared resource.

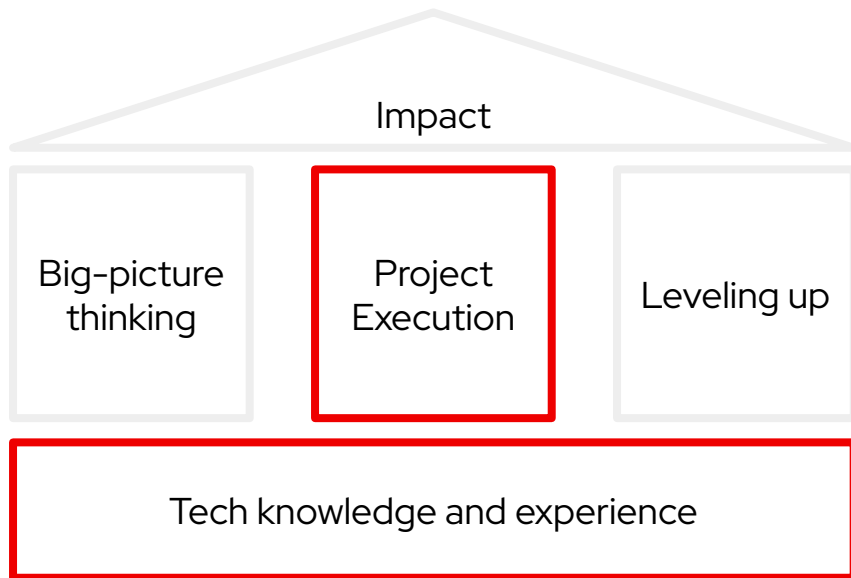
at "alpha" version of Notebook 2.0 to be available with dependent on people's resources and time availability.

Improve your Technical Quality



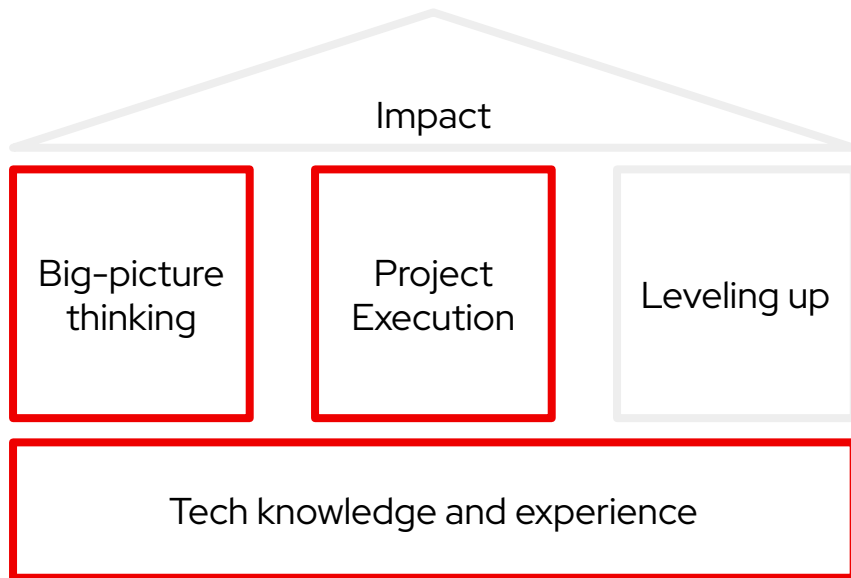
- ▶ Exposed to code from people around the world
- ▶ Code reviewers by different people from different backgrounds
- ▶ Opportunity to collaborate and learn at the industry level

To lead, you have to learn how to follow



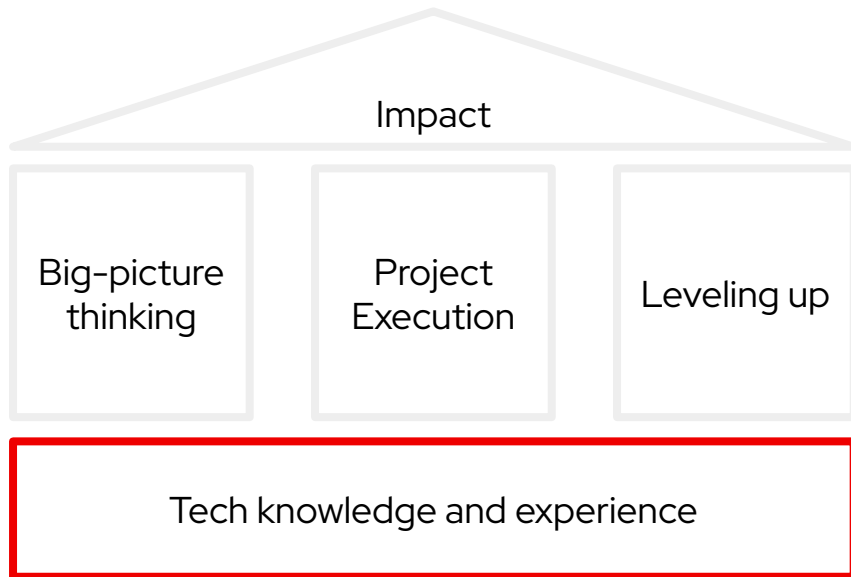
- ▶ Align your contributions with the community direction
- ▶ Effective leaders spend more time following than leading
- ▶ Contribute to the ought to be of the community

Learn how to lead without authority



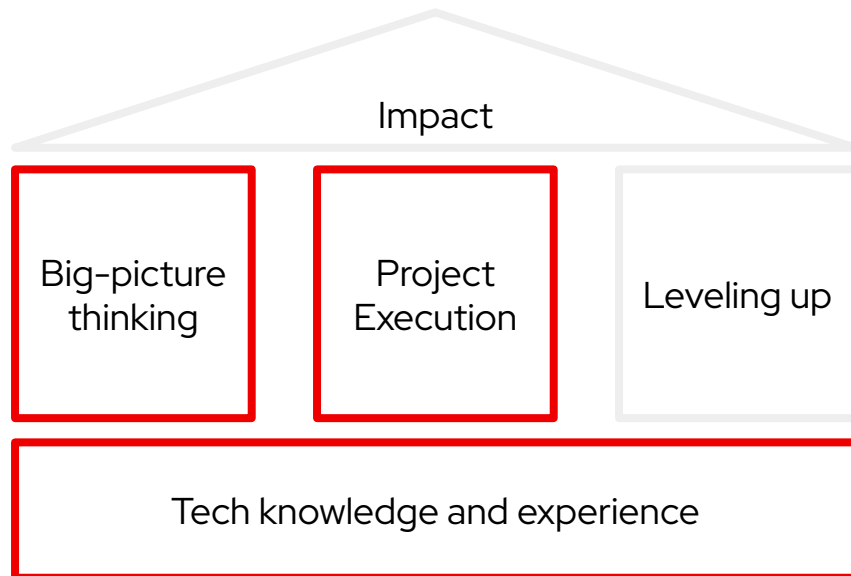
- ▶ Learn to lead people with multiple backgrounds
- ▶ Learn to conciliate the interests of multiple stakeholders
 - 'Read the room'
- ▶ Learn how to preserve the best interests of a community/project
- ▶ Learn how to influence without authority

Expand your network

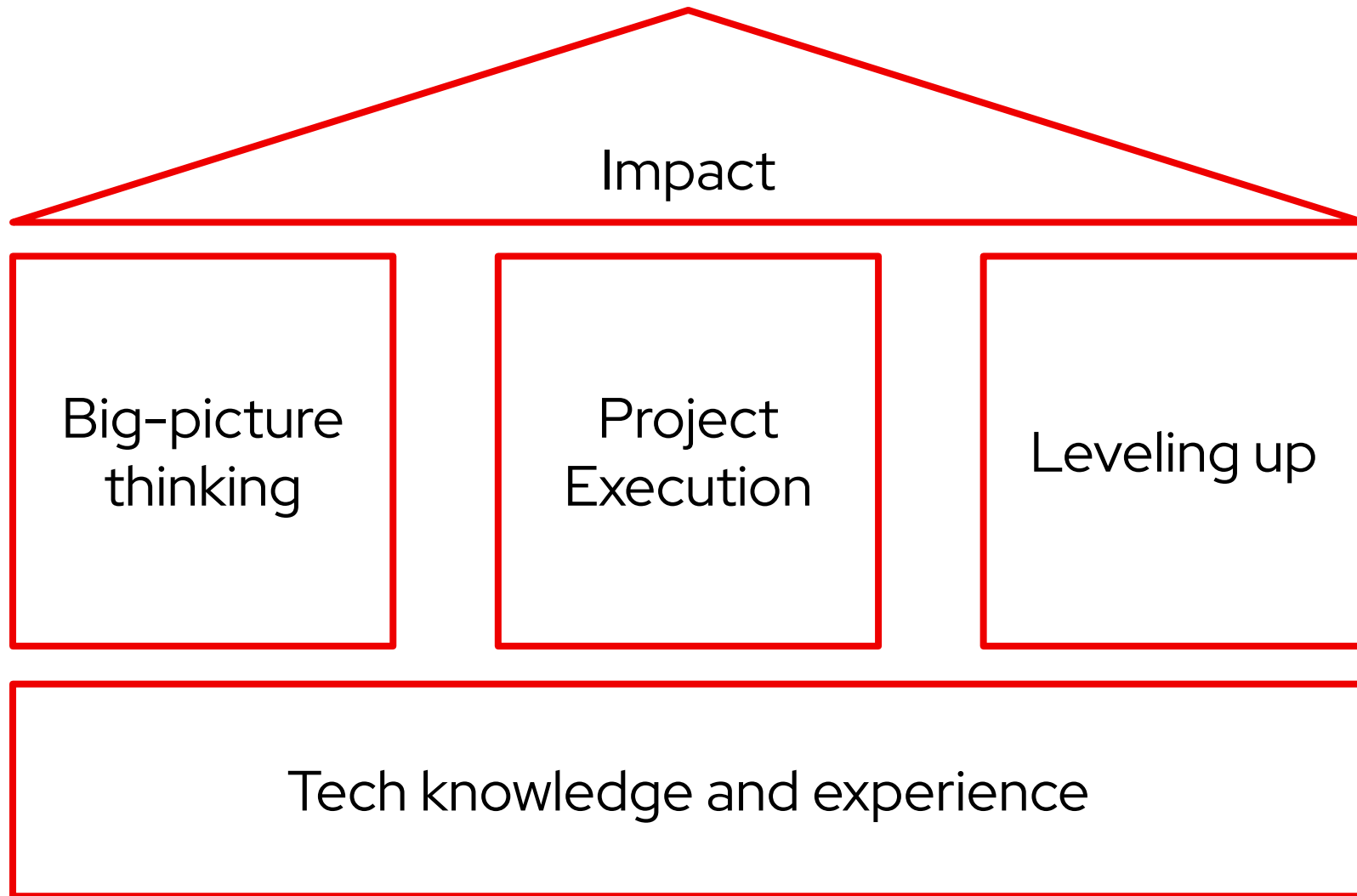


- ▶ Open-source software is distributed across the globe
- ▶ Build multicultural network, increase your diversity exposure
- ▶ Network across industry

Create visibility



- ▶ Visibility based on public contribution
- ▶ Increase visibility with contributions aligned with your company's needs
- ▶ Access new sponsors



Open Source Engagement – Takeaways for...

Aspiring IC

- ▶ Learn a lot from a diverse group of people;
- ▶ Build your personal brand;
- ▶ Become a reference in your community;
- ▶ **Become a reference in your company;**
- ▶ **Learn to lead without authority**

Staff+

- ▶ Good for the industry;
- ▶ Become a reference in the field;
- ▶ **Practice leading without authority**

Open Source Engagement - Suggested Action items

Aspiring Staff

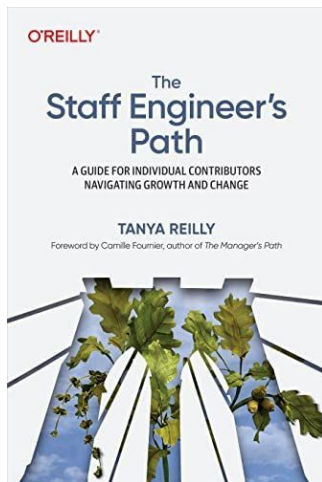
- ▶ Find an open source community project that your current project consumes;
- ▶ Join the communication channels;
- ▶ Build it!
- ▶ Narrow your scope
- ▶ Make your first contribution to this project;
- ▶ Career Impact!

Staff+

- ▶ If possible, become a core contributor of a open-source community project that your current initiative consumes;
- ▶ Mentor/pair with someone from your team on their first contribution on open-source
- ▶ Career Impact!



We are evolving as community



Books

The Staff Engineer's Path

Staff Engineer: Leadership beyond the management track

Talking with Tech Leads



Conferences

QCons, Lead dev etc.



Communities

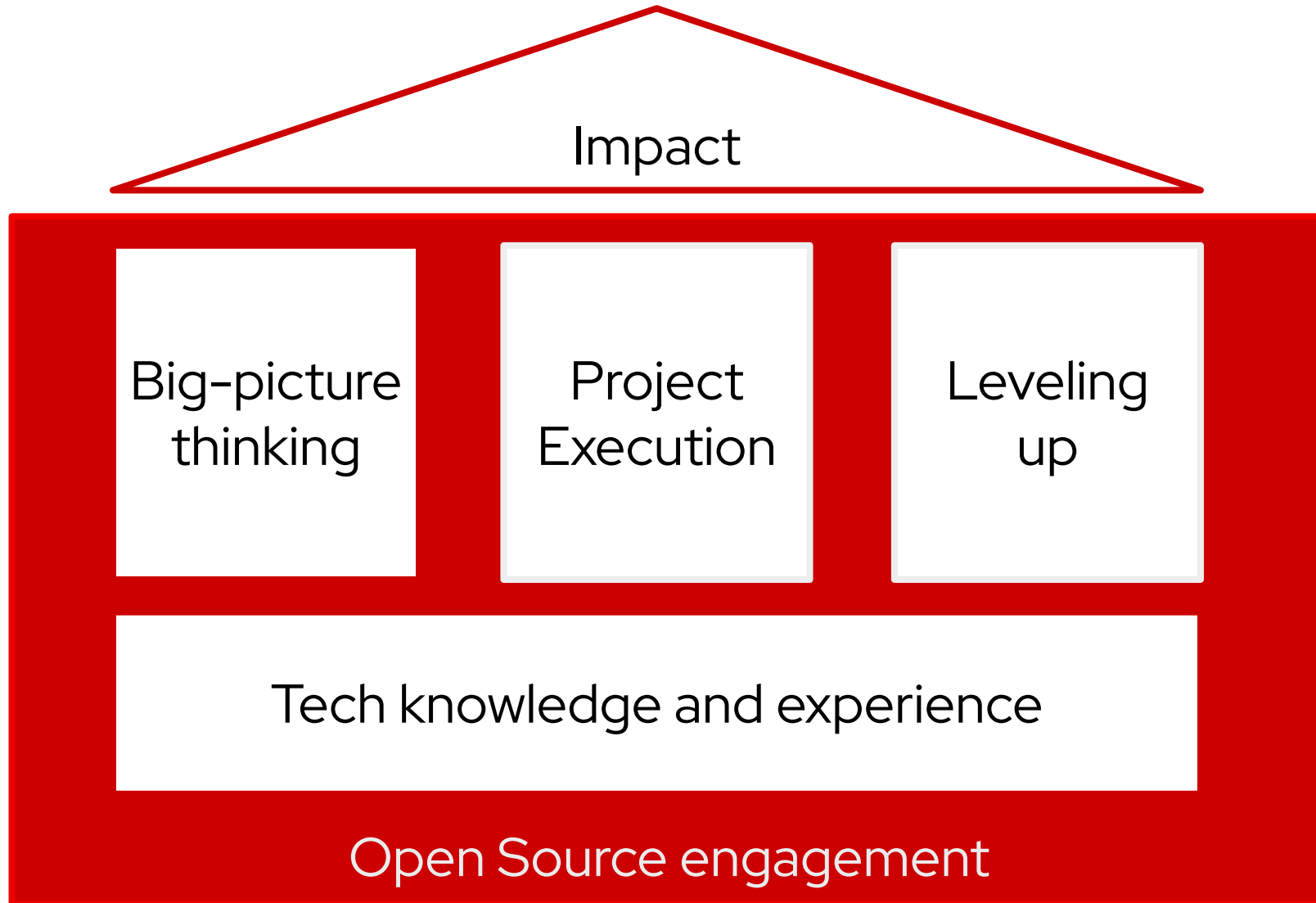
Warning: do not leave the pathway as there is fencing placed in the corn as a support against wind damage

5-06 A8Maze 10 (7) small



Exit

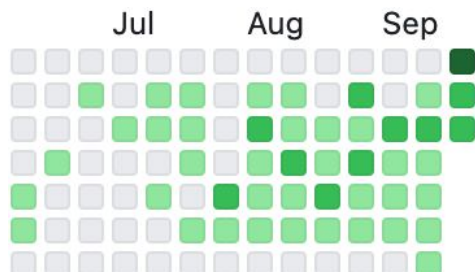
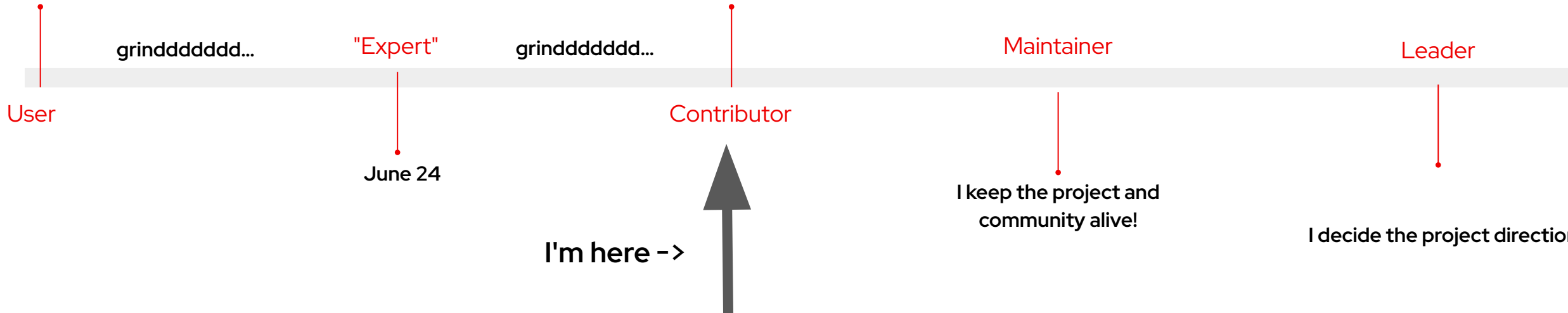
Bridge Entrance



Walk the talk - Kubeflow community

Mar 24: Joined
OpenShift AI
Zero Kubeflow
knowledge

July: Part of Kubeflow Model
Registry and Notebooks 2.0



Thank you!



[linkedin.com/in/ederign](https://www.linkedin.com/in/ederign)



twitter.com/ederign