

## Building a Culture of Collaborative Innovation



Helping companies to innovate through the power of developer communities

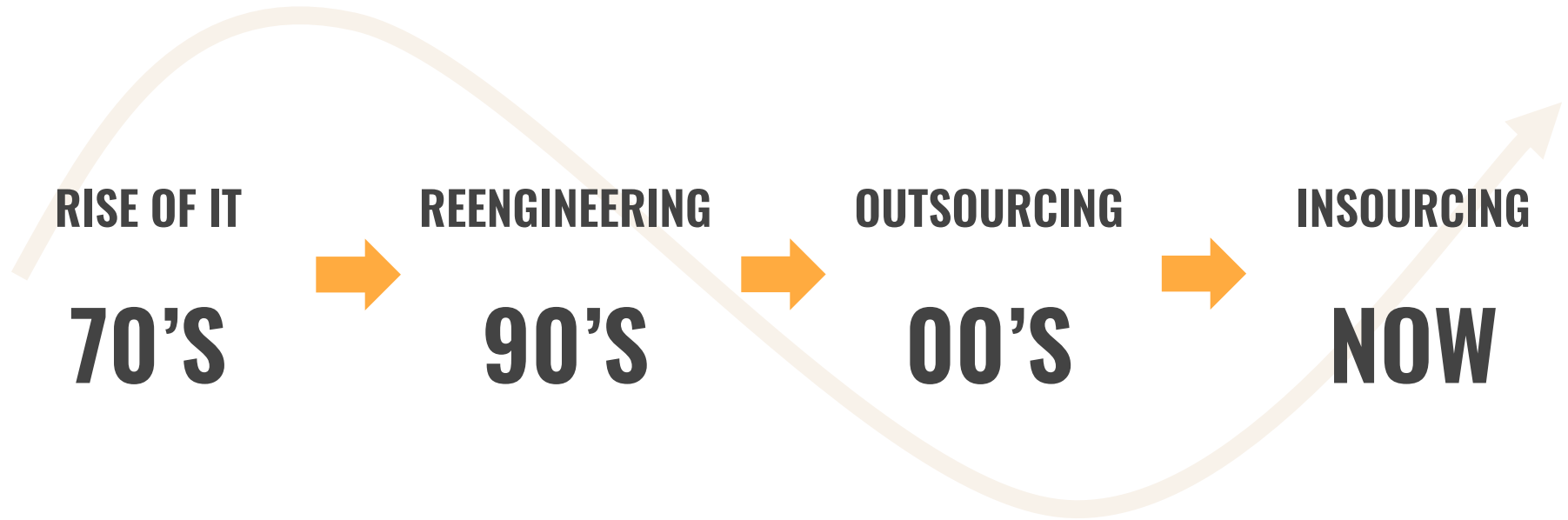
A person wearing headphones is sitting at a desk, working on a laptop. The scene is dimly lit, with a desk lamp visible on the right. The person is wearing a blue long-sleeved shirt and is focused on their work. The background shows a typical office environment with shelves and other equipment.

**THE AGE OF THE DEVELOPER**

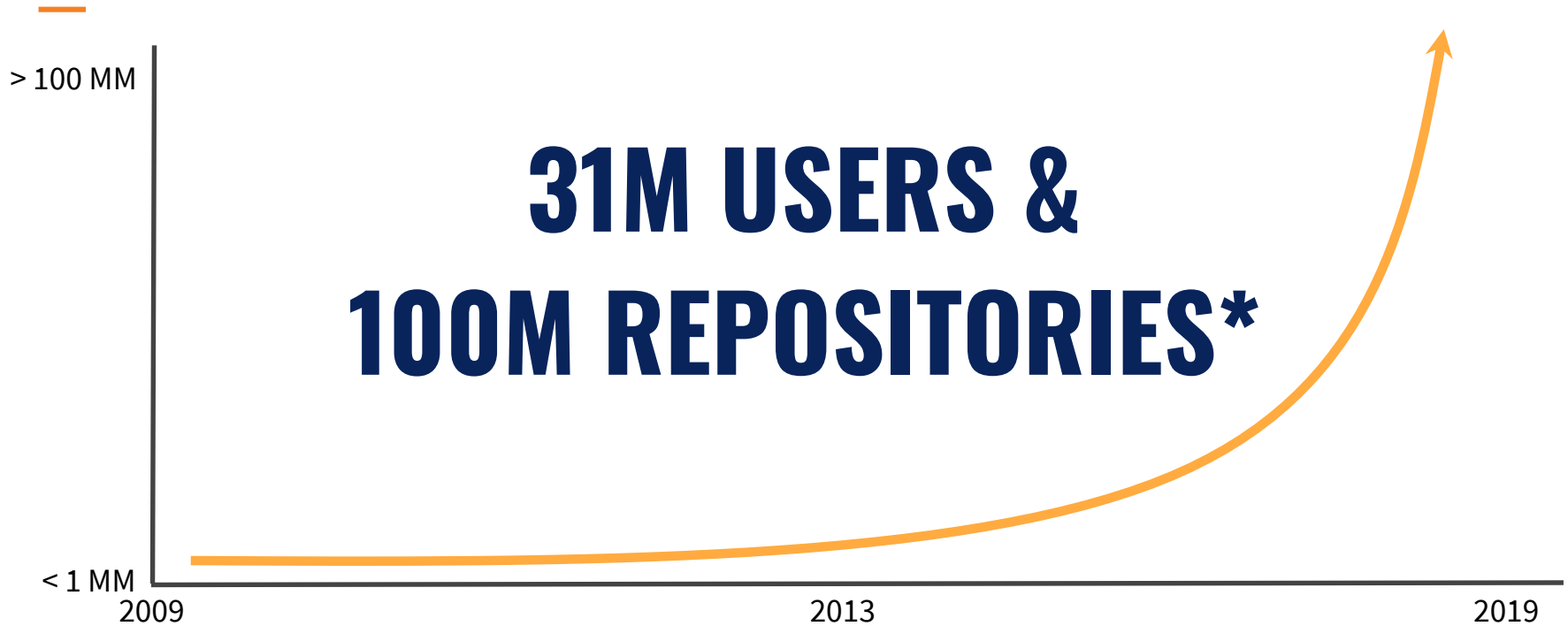
# Success in the Digital Age Requires Developers

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# The Journey of Enterprise IT...



## Growth in Code



\* Source: GitHub 2018

# Stack Overflow: The World's Developer Community

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**58 Million**  
Monthly Users

**ALL THE  
WORLD'S  
DEVELOPERS**

+



**18,000,000+**  
Questions

**ALL THE  
PROGRAMMING  
KNOWLEDGE**

=



**71,000**  
Users on Site Now

**STACK  
OVERFLOW  
COMMUNITY**

# What is Stack Overflow

## How it works

Stack Overflow is a Q&A site for developers. It's all about **getting answers**. It's not a discussion forum. It is for objective answers.

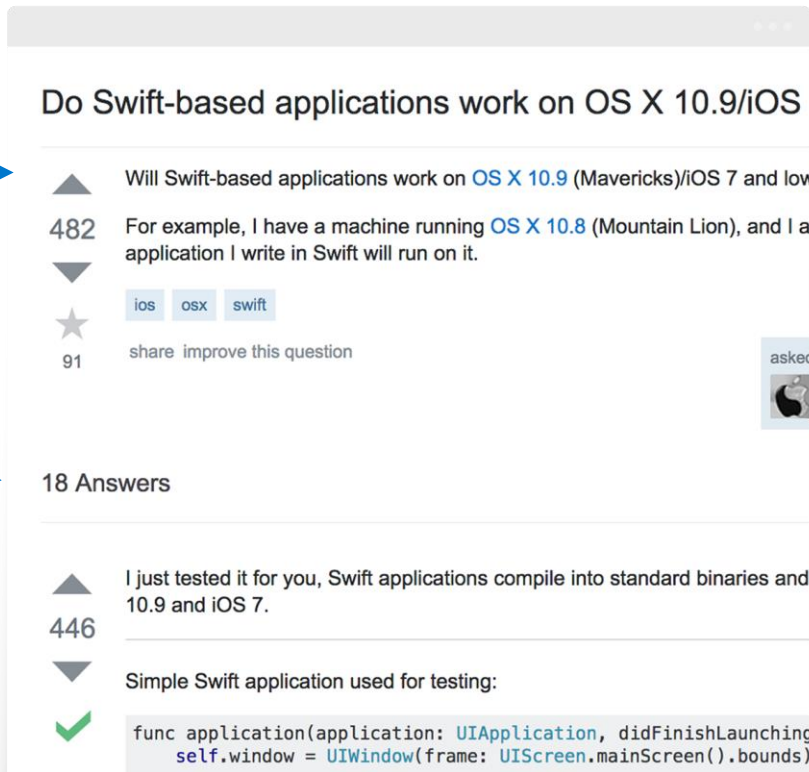
Just **questions...** and **answers.**



Good answers are voted up and **rise to the top**. The best answers show up first so that they are always easy to find.



The person who asked can mark one answer as "accepted". Accepting doesn't mean it's the best answer, it just means that it worked for the person who asked.



The screenshot shows a Stack Overflow question titled "Do Swift-based applications work on OS X 10.9/iOS". The question text is "Will Swift-based applications work on OS X 10.9 (Mavericks)/iOS 7 and low". It has 482 votes and tags for "ios", "osx", and "swift". Below the question, there are 18 answers. The top answer has 446 votes and states "I just tested it for you, Swift applications compile into standard binaries and 10.9 and iOS 7." Below this answer, there is a code block for a simple Swift application used for testing:

```
func application(application: UIApplication, didFinishLaunching
self.window = UIWindow(frame: UIScreen.mainScreen().bounds)
```

# Who is on Stack Overflow?



**10,793,000**

Full Stack Developers



**1,634,000**

DevOps & Network Engineers



**1,206,000**

Mobile Developers



**474,600**

ML & Data Scientists



**1,498,000**

Database Administrators



**984,000**

Embedded Systems Engineers

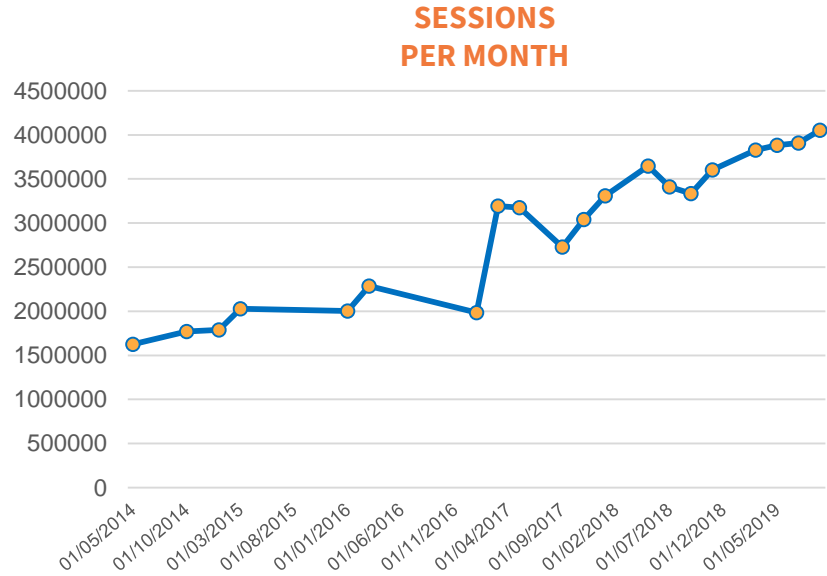
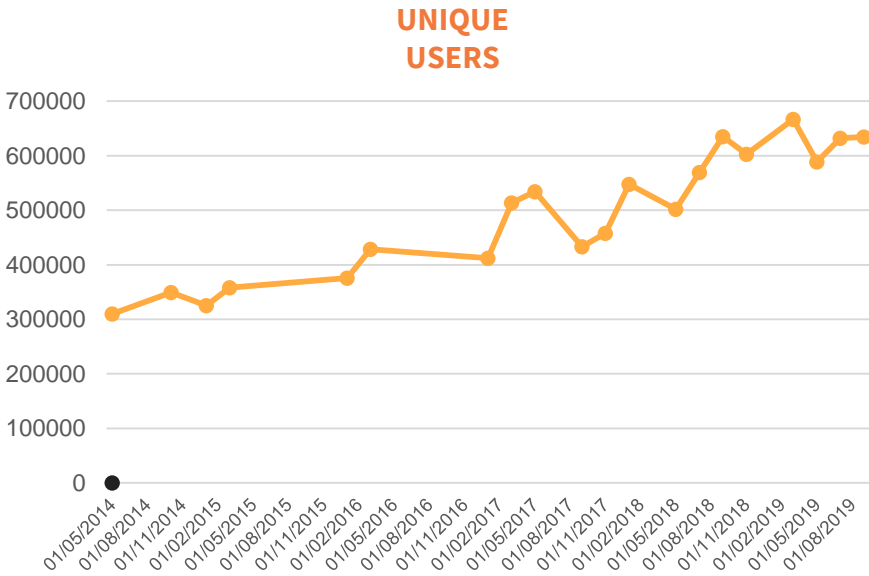
# Stack Overflow Users Across APAC

Country	Unique Users	Monthly Sessions
India	8,057,938	38,461,798
Indonesia	1,102,646	3,845,509
Australia	1,076,744	5,265,341
Philippines	956,430	3,104,654
Japan	916,879	3,928,304
South Korea	777,330	3,844,439
China	726,096	3,079,300
<b>Vietnam</b>	<b>657,877</b>	<b>3,835,670</b>
Singapore	566,198	2,670,214
Pakistan	531,093	2,498,745
Turkey	526,132	2,615,347
Taiwan	525,316	2,779,502
Hong Kong	492,246	2,145,307
Thailand	483,446	2,007,335
Malaysia	479,346	1,968,274
	<b>17,875,717</b>	<b>82,049,739</b>

Region	Users	Sessions	User %	Session %
<b>APAC</b>	<b>17,875,717</b>	<b>82,049,739</b>	<b>37.14%</b>	<b>35.67%</b>
NA	15,802,799	74,600,164	32.83%	32.44%
EUR	13,087,250	66,480,813	27.19%	28.91%
SA	1,365,381	6,865,393	2.84%	2.99%
	<b>48,131,147</b>	<b>229,996,109</b>	<b>100.00%</b>	<b>100.00%</b>

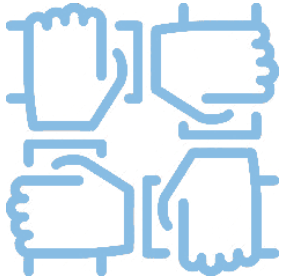


# Growth in the Vietnamese Developer Community



# Ingredients for Collaborative Innovation

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**STRONG  
CULTURE**



**SKILLED  
TECH TALENT**



**KNOWLEDGE  
ARCHITECTURE**

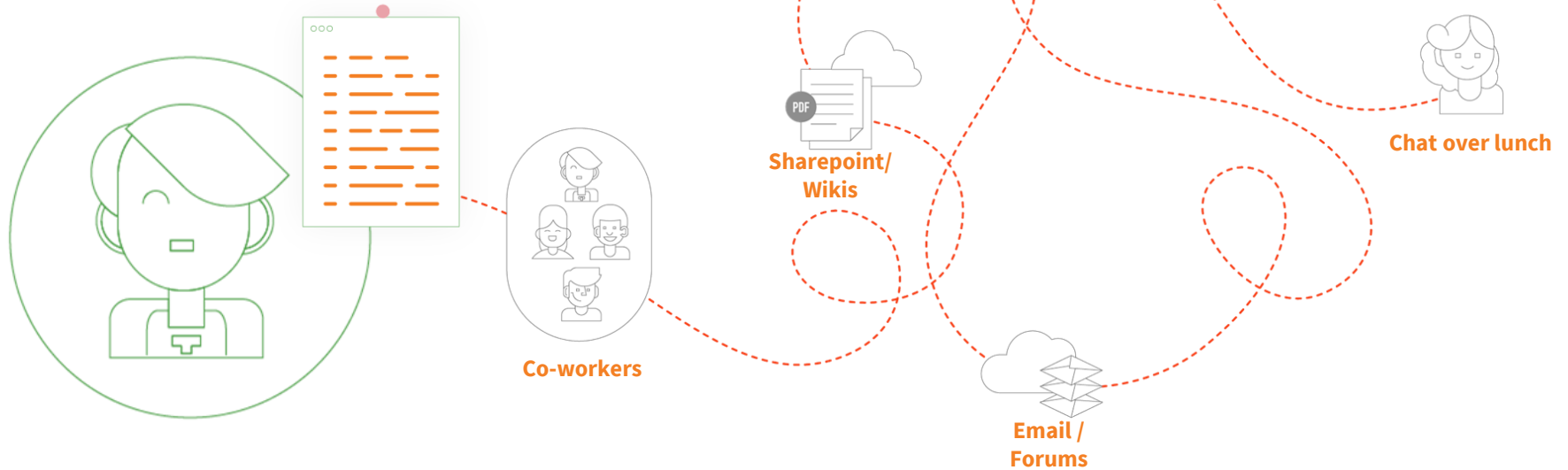


**OPEN  
ECOSYSTEM**

**The Foundation for Fostering Innovation**

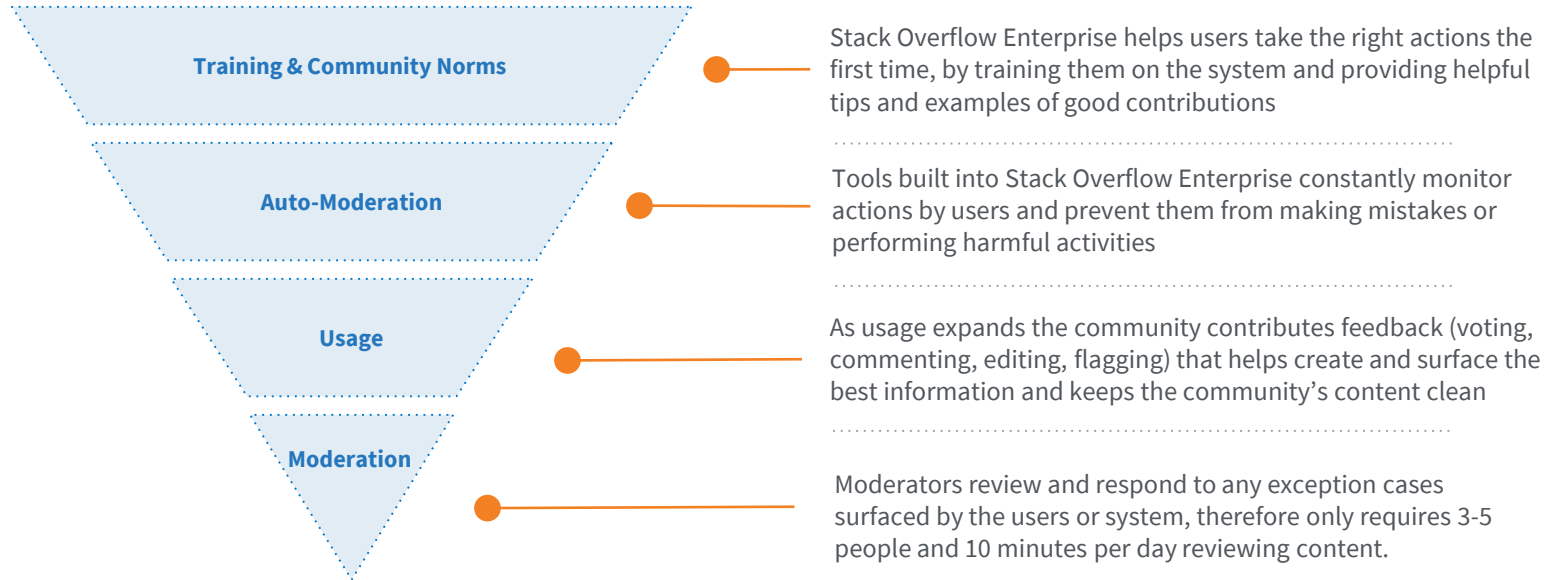
# Path of Collaboration & Knowledge Sharing Today

The traditional way of finding answers to problems in companies is inefficient, time-consuming, and does not capture answers in a way that is easily searchable.

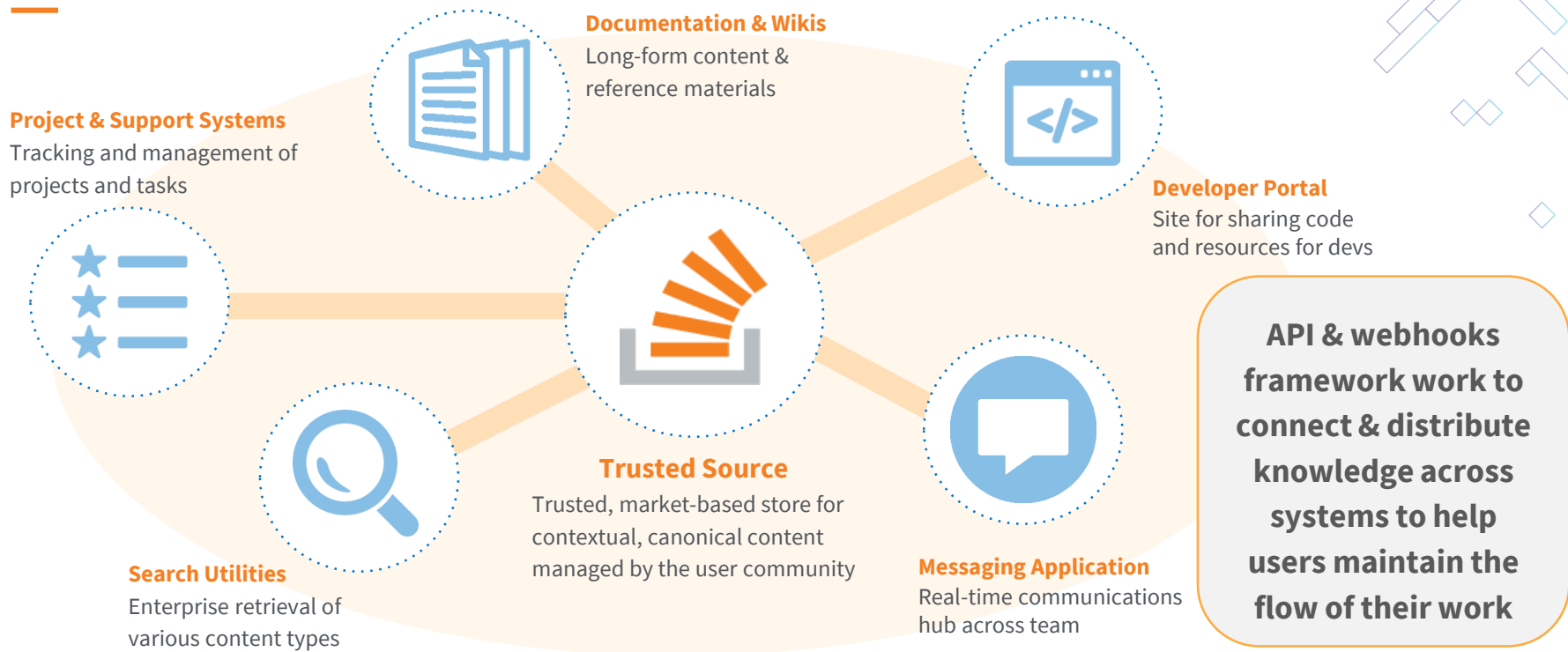


# Collaborative Innovation Needs a Community!

Capturing knowledge so that it is discoverable to users requires a community. The knowledge architecture therefore needs to make it easy for members of the community to contribute while reducing the administrative overhead



# An Integrated Collaborative Knowledge Architecture



# Client stories: Digital Banking Leader

## CHANNELS

- ✓ Email
- ✓ Internal chat

## PAIN POINTS

- ✓ Unknown level of support required
- ✓ Federated Development Model
- ✓ Lack of centralized feedback methods

## FASTER PRODUCT DEVELOPMENT

Speed to market reduced

## BETTER PRODUCTS

More fully tested MVPs

## Product Team realizes faster, better product development and delivery

### The Challenge

- Digital Product Management team was working on a project to create a public facing API platform
- Internal developer portal was created to capture learnings during project, however development practices were highly federated and lacked consistent tooling, processes, and centralized knowledge management
- Teams were building things in tandem without visibility into other projects
- Needed a solution that would allow API consumers and producers to collaborate across lines of business to rapidly build products, collect feedback, and meet an aggressive project timeline
- Additionally wanted to maximize self-service and minimize time-consuming direct support requests

### The Solution

- After testing and failing with other Q&A platforms, they chose Stack Overflow Enterprise due to the familiarity and trust developers already had with Stack Overflow
- Originally deployed to the Digital team, adoption rapidly grew to other groups, creating a broader community and enabling faster product feedback loops
- Integrations to Stack Overflow Enterprise allowed visibility into what other teams were working on, fostering greater collaboration on projects and building of APIs for reusability
- Results were better API products and at least 20% faster product delivery as teams were able to build on top of something that already existed

# Client stories: Financial Services Company

## CHANNELS

- ✓ Email
- ✓ Jive
- ✓ Internal chat

## PAIN POINTS

- ✓ Small Team
- ✓ Inefficient Processes
- ✓ Support Blind Spots

## EMAIL IMPACT

↓ 20%

## SUPPORT REDUCTION

↓ 20+ Man Hours/month

## KNOWLEDGE RETENTION

Daylighted & centralized  
critical systems info

## Support Team reduces manual support burden through self-service

### The Challenge

- Support Team tasked with servicing a critical legacy middleware platform
- Poor documentation meant that outgoing employees took knowledge with them
- Support workflows consisted of reading through email mailboxes, manually triaging, and either responding to them directly or forwarding to another team member
- Daily “open office hours” held to address customer questions requiring 3 or more team members answering same questions over and over
- Support unable to prioritize high priority queries from general information questions

### The Solution

- Support Team began by posting FAQs and processes in Stack Overflow
- Implemented self-service workflow that guided users to Stack Overflow, and search or post a question only if their issue was not already addressed
- Created onboarding/offboarding process to capture crucial product knowledge in Q&A
- Led to 20+ man hours / month reduction of time required to hold daily office hours in the first 3 months
- Office hours eventually eliminated freeing Support engineers to moved out of their silos
- Support engineers focused on solving customer problems and making process and product improvements

# Client stories: Leading Enterprise Technology Company

## CHANNELS

- ✓ Email
- ✓ Phone
- ✓ Internal chat

## PAIN POINTS

- ✓ Small Team
- ✓ Inefficient Processes

## EMAIL IMPACT

↓ 30%

## SUPPORT BURDEN

↓ 20%

## FEATURE FOCUS

↑ 20%

Customer Success frees up time from inefficient processes to focus on product

## The Challenge

- The Developer Tools Customer Success team was overloaded supporting more engineers using even more tools
- Could not scale up their manual email support workflow and help with tools adoption at same time
- Needed a way to ensure engineers received high quality answers to their questions in a timely fashion

## The Solution

- Realized they were double handling support queries and needed a better workflow to triage different issues and workstreams
- Customer Success pivoted the workflow to have a team dedicated to monitoring and answering questions to the [cs-\*] tags on Stack Overflow
- Customer Success still monitor Stack Overflow, but now focused more of their time with product feature teams
- Success of this new workflow showed in the high question to answer ratio on monitored tags
- Turned off email support and directed all queries via auto-responder to either Stack Overflow or other escalation support channels



# Client stories: Big Data Technology Pioneer

## CHANNELS

- ✓ Email
- ✓ Slack

## PAIN POINTS

- ✓ Small Team
- ✓ Inefficient processes

## SUPPORT EFFICIENCY

↑ 20%

## BEST PRACTICES

Support Model became standard for other product teams

Improved support processes enable team to significantly increase efficiency

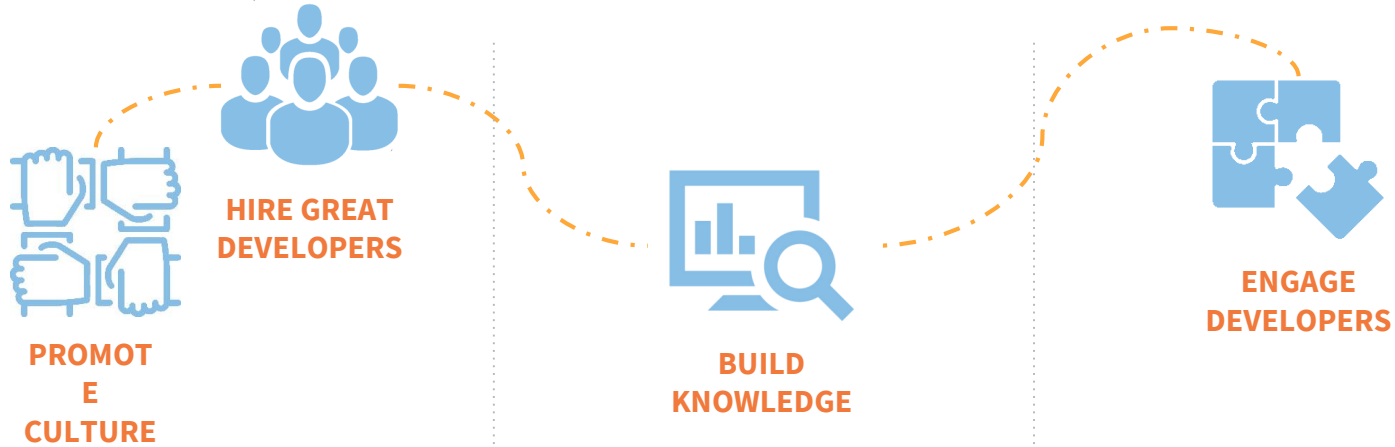
## The Challenge

- Internal Product Support Team was severely resource constrained and unable to scale to address support burden through email threads and Slack channels
- Lack of easy search in Slack channels and email meant support spent a great deal of time answering the same questions over again
- Internal documentation and tracking tools were adequate to track issues but not optimal to search and track new questions, reducing overall support efficiency

## The Solution

- The Support Team analyzed their current processes and incorporated Stack Overflow into their workflow
- Seeded the platform with high-quality, frequently asked questions creating examples of excellent, evergreen content that was centralized and searchable
- Socialize their new support workflows and establish explicit use cases and instructions for Stack Overflow for users
- Established escalation channels and tapped local champions to encourage the use of Stack Overflow
- Result has been an 20% increase in overall efficiency and a repeatable support model that has also been adopted successfully by other product teams

# Stack Overflow Solution Offerings





# Thanks!

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For any questions, please contact

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