



FOR THE GOOD OF THE COMMUNITY

# HELLO!



MATT DESMOND  
@beardofedu



MATT DUFF  
@mattcantstop



# ICE BREAKER



<http://www.mercyhurst.edu/news/mercyst-esc-host-2018-ice-breaker-tournament>

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# WHAT ARE WE GONNA DO TODAY?

- How to formalize organization contributions to open source projects
- Discuss and build out goals for those contributions
- Identify helpful metrics for those contributions





**"THERE ISN'T A ONE SIZE FITS ALL MODEL. I CAN'T STAND UP IN FRONT OF A CROWD AND SAY 'THIS IS HOW YOU SHOULD DO IT'"**

–James McAffer, Director of the Open Source Programs Office at Microsoft

# OBJECTIVES

- Walk away with a plan to understand your company's open source reliance
- Walk away with goals to act on
- Walk away with metrics to work with



**GITHUB.COM/UNIVERSEWORKSHOPS/FOR-THE-GOOD**



# WHAT CONTRIBUTING CAN LOOK LIKE

# OFFICE OF OPEN SOURCE MGMT

- Tracks consumption of open source projects
- Provides structure for contributions
- Manages license usage
- Tooling
- Guides / Docs

# TOOL EXAMPLES

- CLA Assistant (<https://cla-assistant.io>)
- Microsoft's Open Source Portal (<https://github.com/Microsoftopensource-portal>)
- GHTorrent (<http://ghtorrent.org/>)
- GHcrawler (<https://github.com/microsoft/ghcrawler>)

# HOW THEY DO IT AT OTHER ORGS

- Align open source goals with business goals
- Create a company wide policy that encourages use and contributing to open source



# CAUSE SPREADSHEETS ARE HARD



- Tools to manage open source dependencies
  - GitHub Marketplace (<https://github.com/marketplace/category/dependency-management>)
    - Depfu
    - MyGet
    - Greenkeeper
    - Sonatype DepShield
    - Renovate
    - Dependabot
    - Snyk
  - Fossa (<https://fossa.io>)

# VULNERABILITIES DON'T LOOK GOOD ON YOU



- Tools to find, fix, and prevent security vulnerabilities
  - GitHub Marketplace (<https://github.com/marketplace/category/security>)
    - LGTM
    - Depfu
    - BackHub
    - Sonatype DepShield
    - Renovate
    - Dependabot
    - Snyk



# WHAT CONTRIBUTING WILL PROBABLY LOOK LIKE



# TYPICAL HURDLES

- Resources
- Who will manage it?
- How to organize it?



# YOUR PLAN

- What open source projects are being consumed?
- What open source technologies are fundamental to achieving business objectives?
- What does our current open source contributions look like?
- How are new open source projects used?
- How else can we be utilizing open source projects?
- Are you going to document the journey?
- How will you share success and failure?



# MAKE A PLAN



**"REPORTS ARE A GOOD WAY TO RAISE AWARENESS. EVEN THOUGH FACEBOOK PLACES A HIGH VALUE OPEN SOURCE (AS AN ORGANIZATION), IT'S STILL ALWAYS A GOOD THING TO MARKET YOURSELF INTERNALLY ALL THE TIME AND SHOW YOUR VALUE"**

–Christine Abernathy, Open Source Developer Advocate at Facebook

# MEASURE INCHES NOT FEET

- Lofty goals, reasonable expectations
- Create a dashboard that collects and displays pertinent data for this initiative



# METRIC EXAMPLES

- Number of submitted, open ,and accepted issues and pull requests
- Age of open issues and pull requests
- Contributions to consumed projects
  - Not necessarily lines of code or commits, but contributions that have been merged
  - Code or monetary
- Do you have formalized processes?
- Are people using said processes?



# MEASURING SUCCESS



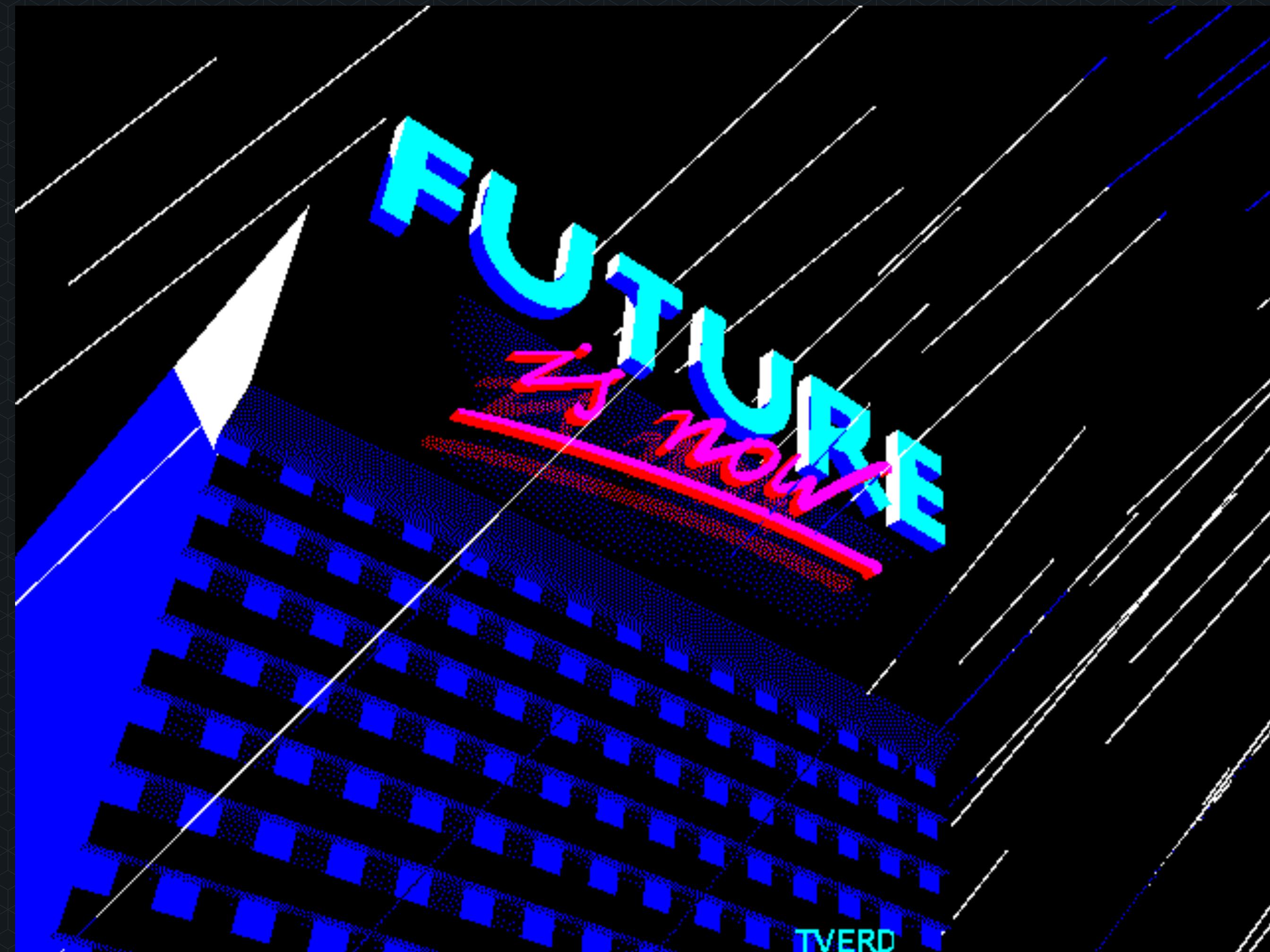
# CREATIVE USE OF MECHANICS

# HOW ELSE CAN OPEN SOURCE HELP?

- Code challenges
- Collaborator to coworker
- Snipe-IT (<https://snipeitapp.com>)



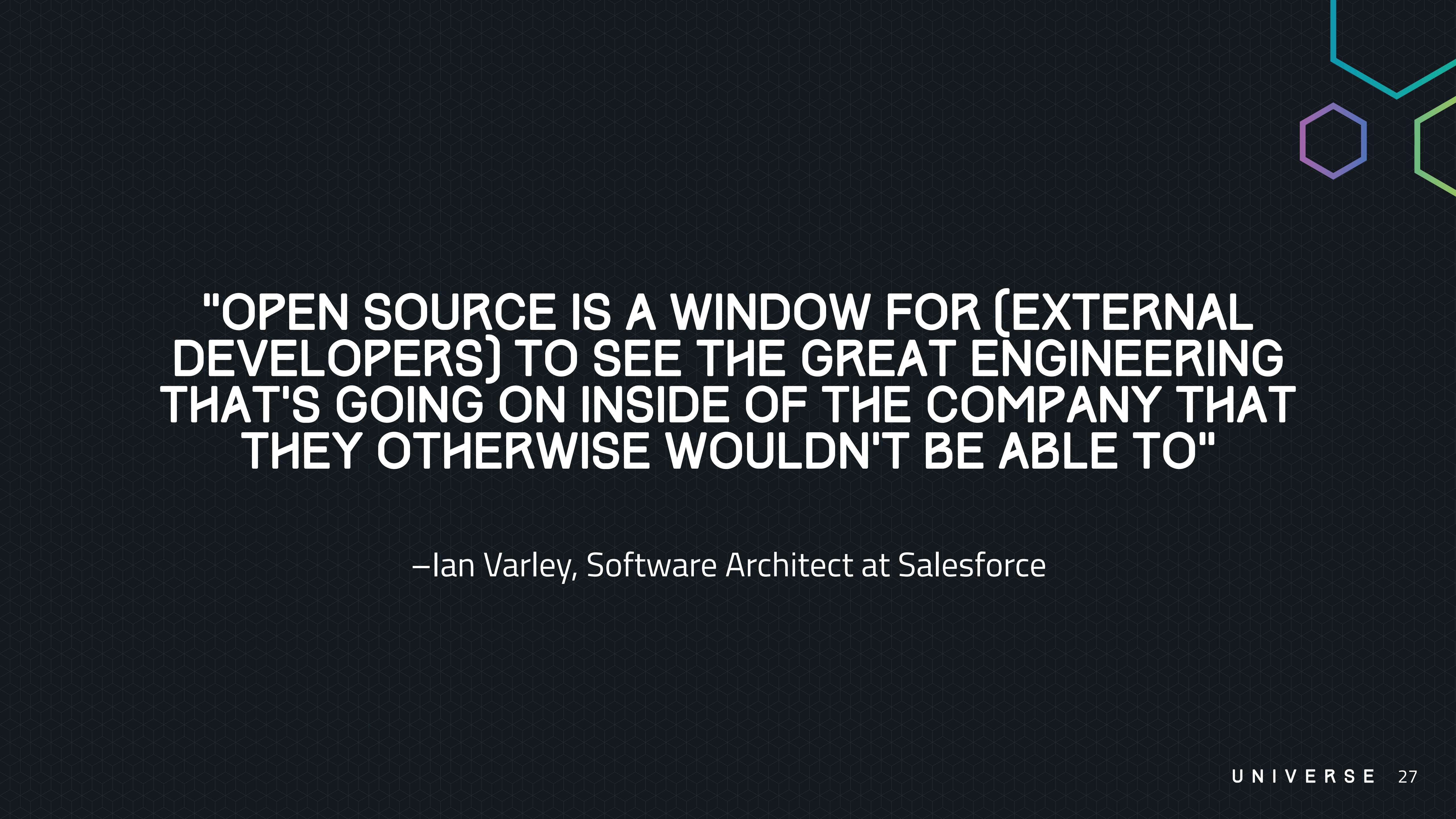
# LOOKING TO THE FUTURE





**"HOW DO YOU ACTUALLY GET THE SMARTEST  
PEOPLE IN THE WORLD WORKING AT YOUR  
COMPANY? WELL, YOU OPEN SOURCE STUFF AND  
THEN CONVINCE THEM TO CONTRIBUTE TO YOUR  
PROJECTS!"**

—Chris Aniszczyk, Executive Director of the Open Container Initiative and COO of  
the Cloud Native Computing Foundation



"OPEN SOURCE IS A WINDOW FOR (EXTERNAL DEVELOPERS) TO SEE THE GREAT ENGINEERING THAT'S GOING ON INSIDE OF THE COMPANY THAT THEY OTHERWISE WOULDN'T BE ABLE TO"

—Ian Varley, Software Architect at Salesforce



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