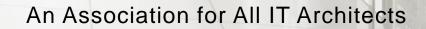
# WHO OWNS THIS CODE?

....

#### MARCH 23RD 2023



Who owns this code? Code Ownership & Open Collaboration

Clare Dillon

Executive Director, InnerSource Commons

Clare@innersourcecommons.org linkedin.com/in/claredillon/



# Clare Dillon

clare@innersourcecommons.org linkedin.com/in/claredillon/







InnerSource SPECIAL INTEREST GROUP



# Open Collaboration

Image thanks to @juliot

# Let's talk about Open Collaboration...

Let's talk about InnerSource...

InnerSource is using Open Source engineering methods inside proprietary organizations

## What is Open Source? Source code that can be...



### Not Just Code....



## What is InnerSource? Source code that can be...



# **BEHIND A FIREWALL**

### InnerSource is about Open Source....

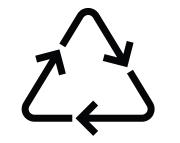


# **BEHIND A FIREWALL**

## WHY? INNERSOURCE











PATH TO OPEN SOURCE READINESS

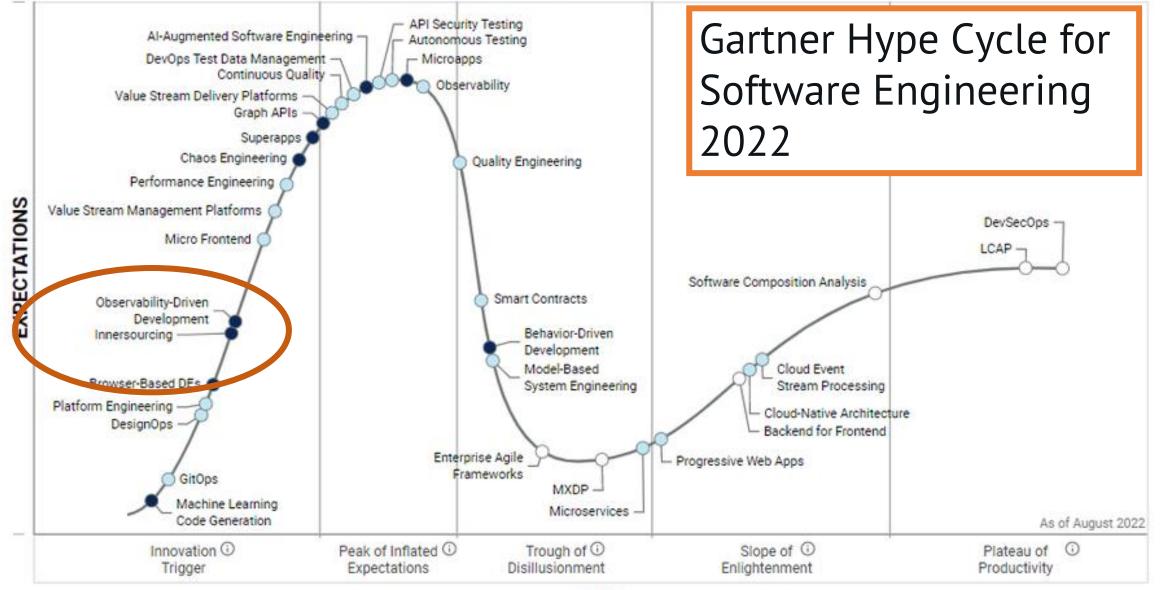
REDUCE SILOS & WASTE

DEVELOPER PRODUCTIVITY & CODE QUALITY HAPPIER DEVELOPERS & SKILLS Time To Plateau Will Be Reached: (

)( 🔘 2-5 yrs. )( 🌒 5-10 yrs.

O < 2 yrs.

**†** < >



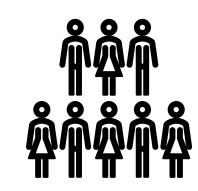
Source: bit.ly/InnerSourceGartnerHype

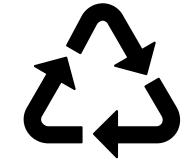
TIME

# INNERSOURCE – WHY NOW?







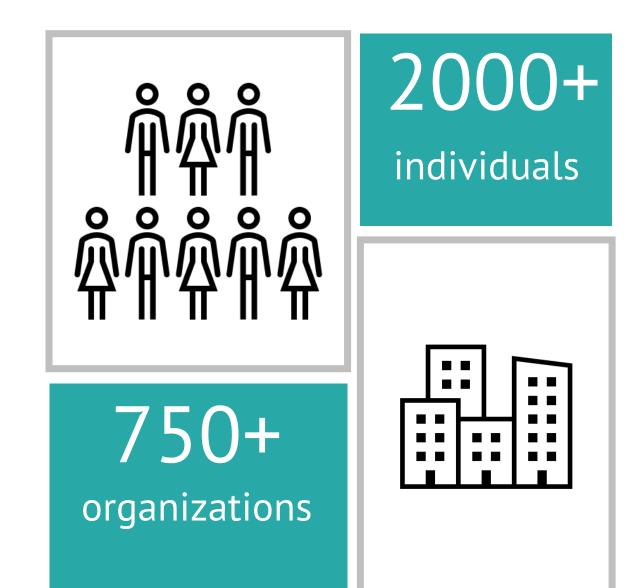


REMOTE & HYBRID TEAMS WAR ON TALENT CODE REUSE & DEVELOPER PRODUCTIVITY



### InnerSource Commons At A Glance

The InnerSource Commons (ISC) is a worldwide growing community of practitioners with the goal of creating and sharing knowledge about InnerSource.





#### innersourcecommons.org/stories/



Let's talk about Ownership... "Ownership is the state or fact of legal possession and control over property, which may be any asset, tangible or intangible."

Wikipedia: https://en.wikipedia.org/wiki/Ownership

Code Ownership =>

- Control of Access
- Control of Use
- Control of Gains
- Accountability

### Considerations:

- Group vs Individual
- No Owner
- Ownership Changes

# So who owns this code? It depends!

### Aspects of Code Ownership

- 1. Legal: who has legal ownership, code copyright?
- 2. Organizational: which departmental budget pays for it?
- 3. Authorship: who wrote most lines of code?
- 4. Control: who decides on the roadmap / priorities?
- 5. Maintenance: who fixes urgent issues or is in charge of support?
- 6. Feeling: This is my code, baby!

# Code Ownership is good!

Right?...

Role ClarityCode QualityAccountabilityPride

# Code Ownership is good!

Maybe!

# Code Ownership is good! Maybe not!

Unknown Owner(s) Role Confusion No Owner(s)

# Code Ownership can be...

Excessive



- Org Rigidity
- Misguided Management
- Wizard Developers

Mortgage-driven Development

# Excessive Code Ownership?

Can Be Toxic!

"Toxic Code Ownership can describe a situation in which an individual or a team exhibits overly possessive or controlling behavior towards a specific part of a codebase, hindering collaboration, knowledge sharing, and overall project progress."

Source: Clare Dillon ...with the help of ChatGPT

# Let's talk about...

# InnerSource Patterns!

https://innersourcecommons.org/learn/patterns/

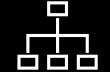
### Toxic Code Ownership - Legal

### Symptoms:

 Unnecessary legal constraints in place to share code across company divisions.

- InnerSource licenses
- Transfer Pricing Patterns













### Toxic Code Ownership - Organizational

#### Symptoms:

- Duplicated effort; reinventing the wheel.
- Continuous escalations for feature requests
- Divergent tools & processes leading to inconsistent code quality

- Leadership Engagement
- Budget innovation
- Formal Comms plans
- Shared code repos & standardized tooling
- Decision making processes
- Advocacy & education
- Metrics & measurement









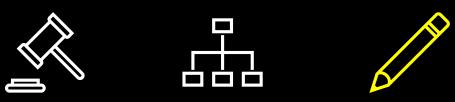




### Toxic Code Ownership - Authorship

#### Symptoms:

- Defensiveness / unwillingness to share code
- "You wouldn't understand my code."
- "Not invented here" syndrome
- Poor documentation
- "Bus factor"



- InnerSource
  Documentation
- Policies (e.g. visible by default)
- Community management
- Mentorship
- Incentives & rewards



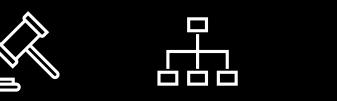




### Toxic Code Ownership - Control

#### Symptoms:

- Gatekeeping
- Own work prioritised over other contributions
- Micro management
- InnerSource Theatre (doing as little as possible to enable collaboration)
- No repeat contributions



- InnerSource Documentation (e.g. visible roadmaps)
- Policies
- Decision making processes







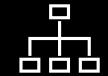
### Toxic Code Ownership - Maintenance

#### Symptoms:

- Orphaned Code
- "You touch it, you own it"

- Ownership guidelines
- Updated Communications.md
- Focus on documentation & archives
- Continuous improvement









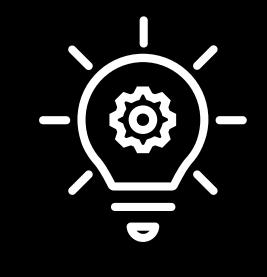




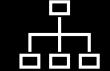
### Toxic Code Ownership - Feeling

#### Symptoms:

- Arrogance
- Possessiveness
- Defensiveness
- Avoidance
- Aggression











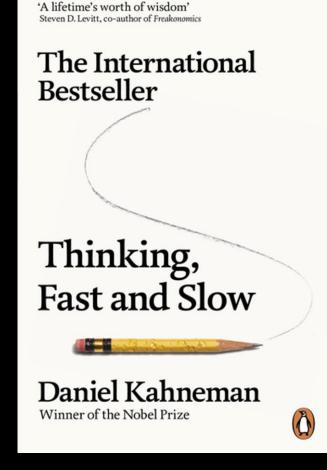




# Let's talk about Feelings...

# Culture Change Challenge!

From toxic ownership... ...to open collaboration!



Daniel Kahneman Author: Thinking, Fast & Slow



### Human Decision Making

Two Decision Making Routes

### Our Lizard Brain

Unconscious Emotion

> Very Fast Involuntary Associative

System 2 Conscious Thinking Slow Controlled Rule Following

### **Threat Response & Our Lizard Brain**



Rational Thought Impaired!

> Also known as... Amygdala Hijack

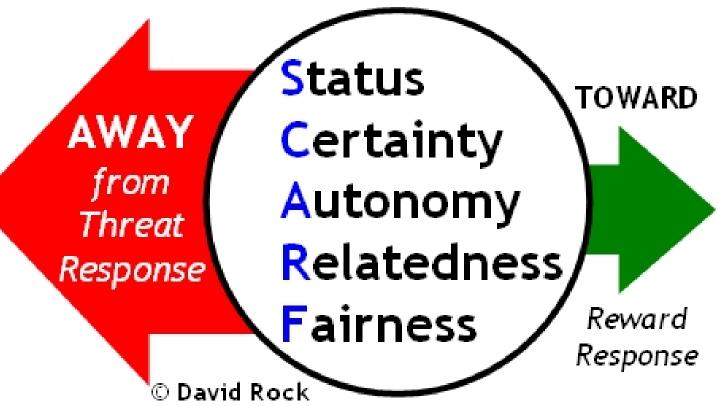
## Introducing...

SCARF

David Rock's SCARF Model

From: David Rock's "SCARF: A Brain-Based Model for Collaborating With and Influencing Others."

### SCARF Model of Social Threats and Rewards



### Social Threat Response & Our Lizard Brain

Causes us to... Fight – Flight – Freeze

# Social Threat Response



Adrenaline Cortisol



Rational Thought Impaired!

### David Rock's SCARF - Social Threats

1. <u>Status</u>: perceived loss of power, respect, or social standing.

2. <u>Certainty</u>: ambiguity, unpredictability, or a lack of information.

3. <u>Autonomy</u>: loss of control or a sense of being forced to do something against one's will.

4. <u>Relatedness</u>: social rejection, exclusion, or criticism.

5. Fairness: perceived unfair treatment, bias, or injustice

### What we say....

Let's openly collaborate with InnerSource



### What we say vs. what they may think & feel....

Let's openly collaborate with InnerSource



**Status:** This is my code. I create it. Are others going to take credit for it now?

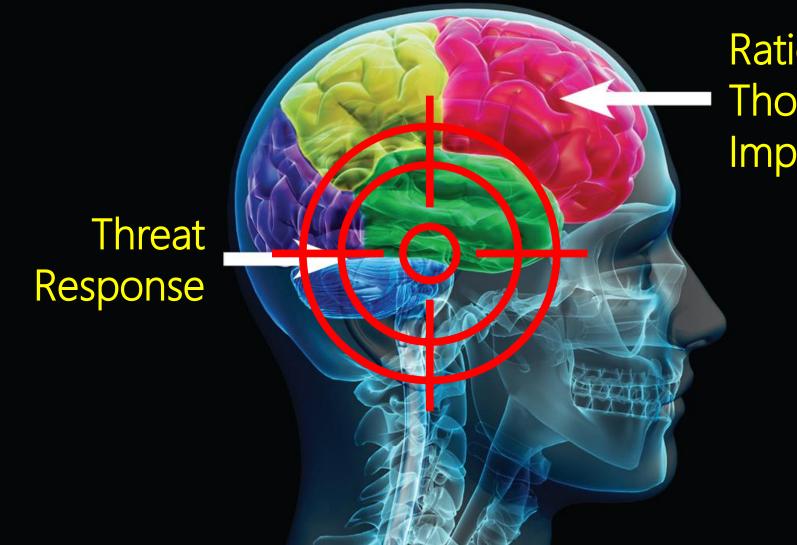
**Certainty:** How will this all work? How will I know who will contribute? How will things get prioritised?

Autonomy: How am I going to control things? Why am I being forced to change how I work?

**Relatedness:** What if people think I am bad at this? Or what if they criticise my code?

**Fairness:** Who's going to take credit for my code now? How will I prove my worth in promo conversations?

## Lizard Brain Trigger Alert!!!



Rational Thought Impaired!

# Fight

Flight

# Freeze

- Pushback
- Resistance
- Aggression
- Passive
  Aggression
- Defensiveness

- Avoidance
- Disinterest
- Expressions of uncertainty
- Blocking Actions

- Procrastination
- Inaction
- Delays in decisions
- Analysis paralysis

### REMEMBER...

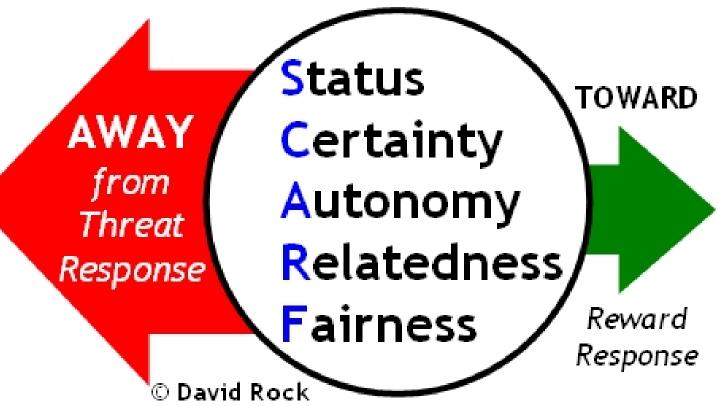
- **Reactions are involuntary:** Rational arguments don't work.
- It can last: Brain hijack can last minutes or hours.
- Minimize threats: Acknowledge & work to address concerns.

## The SCARF Opportunity!

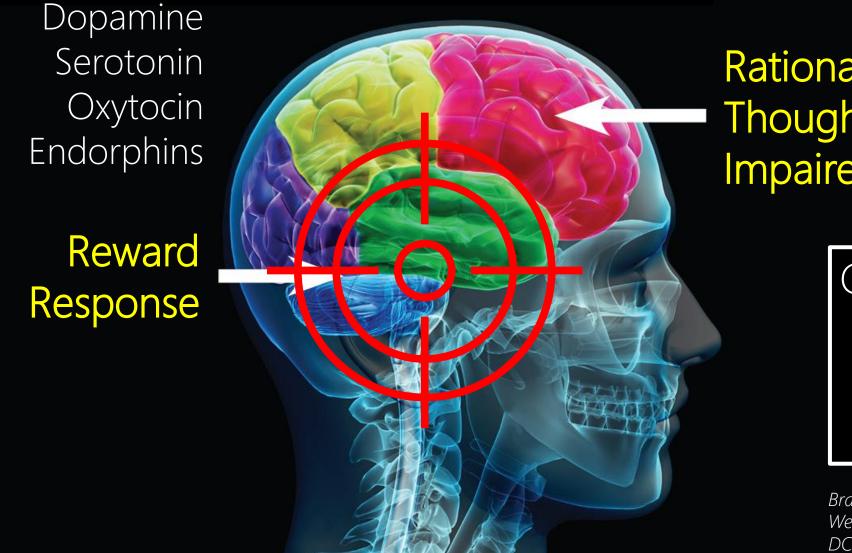
David Rock's SCARF Model

From: David Rock's "SCARF: A Brain-Based Model for Collaborating With and Influencing Others."

### SCARF Model of Social Threats and Rewards



### Reward Response & Our Lizard Brain



Rational Thought Impaired!



### INNERSOURCE PATTERNS & SCARF

Let's openly collaborate with InnerSource



Status: Public recognition & praise, highlight contributions & expertise. On social media, in company newsletters, or at team meetings; outside-in.

**Certainty:** Leadership buy-in; clear guidelines & support; training and mentoring; resources, templates or legal guidance.

Autonomy: Give opportunities to make decisions about the process; co-create process docs. Clarify decision making frameworks. Watch out for blanket enforcements!

**Relatedness:** Connect with others who share their interests & expertise; in online forums, hackathons and physical events.

Fairness: Provide fair compensation & recognition, including opportunities for promotion, performance bonuses etc. Shift what is rewarded. Watch out for metric gaming!





- 1. Code Ownership can mean many things! Clarity necessary.
- 2. Excessive Code Ownership can be toxic! Can inhibit collaboration.
- 3. Feelings can overwhelm! Our Lizard brains are powerful.
- 4. Use SCARF! Minimize threats! Maximize rewards!



### Join us at InnerSource Commons!

### www.innersourcecommons.org





Willem Jiano



(ebam)





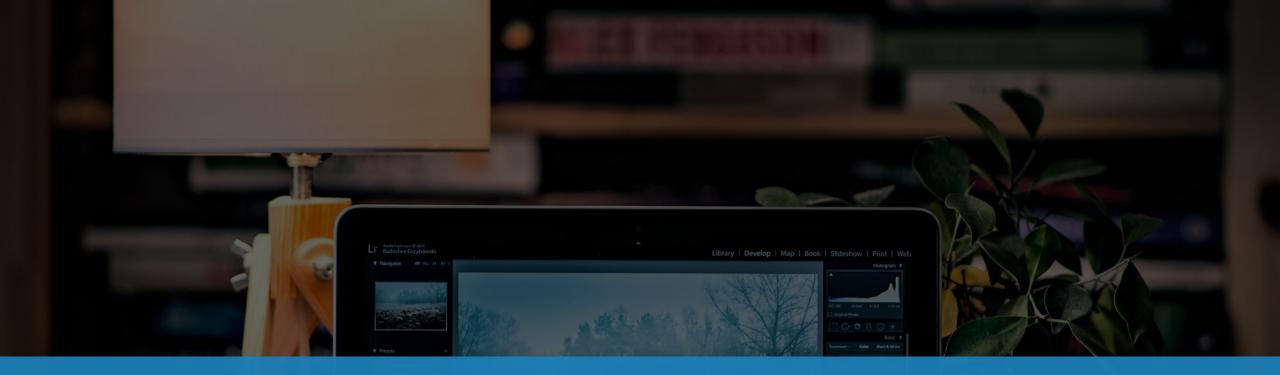




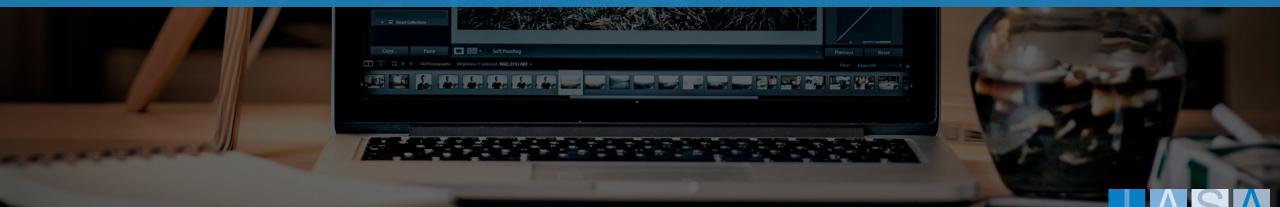








#### For further information, please contactus@iasaglobal.org



An Association for All IT

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