



SRE Saga: The Song of Heroes and Villains

Daria Barteneva, Microsoft Azure

Who is Daria?

Education

Applied Mathematics & Computer Science
MSc Artificial Intelligence
Music Conservatoire – Vocal Technique

Work

Principal SRE @ Azure Observability

Community

SREcon Steering Committee @ USENIX
Program Committee SREcon24 Americas & EMEA
Past: Women in Data Science, Codess, and more

Read.me

USENIX publications ;login: “[Improving On-Call Fatigue](#)”,
O’Reilly “97 Things Every SRE Should Know” - Study of Human Factors
and Team Culture to Improve Pager Fatigue
O’Reilly “Implementing Service Level Objectives” - SLO Advocacy
+ academic publications on multi-agent systems and behavioural
modelling



Diverse Team + Common Purpose

In this talk we will use Dungeons & Dragons metaphors applied to SRE practice to help you and your team building strength and other critical abilities!

“If you want to go fast, go alone. If you want to go far, go together.”

Brace yourself for some...

- Dungeons and Magic Realms
- Dragons, Elves, Orcs, Gnomes, Wizards, and other (AI generated) creatures



What is Dungeons & Dragons (D&D)?



*“Dungeons & Dragons (commonly abbreviated as D&D or DnD) is a **fantasy tabletop role-playing game** originally created and designed by Gary Gygax and Dave Arneson.”*

*“In D&D, players create their own **characters** to embark on **adventures** within a **fantasy setting**.”*

*One player takes on the role of **Dungeon Master (DM)**, who serves as the **referee** and **storyteller**, maintaining the setting and playing the role of non-player characters (NPCs).*

*The other players control **individual characters**, forming a **party** that interacts with the setting's inhabitants and each other. Together, they **solve problems**, **engage in battles**, **explore**, and **gather treasure and knowledge**”*

from [Wikipedia](#)



Disclaimer

My D&D character is:

Minimally Viable Imposter

I never played D&D!

I did read the D&D Player's Handbook and was consulted by an experienced D&D player

Job Title: D&D Adventurer

Location: Various Realms and Dungeons

About the Role: Join a diverse and dynamic team of **adventurers** on a quest to explore **uncharted territories**, **battle formidable foes**, and **uncover hidden treasures**. As a party member, you will play a crucial role in the success of the group, utilizing your unique skills and abilities to overcome challenges and achieve common goals.



Job Title: SRE

Location: Various Cloud Environments

About the Role: Join a diverse and dynamic team of **engineers** on a quest to ensure the **reliability, performance, and scalability of our systems**. As a team member, you will play a crucial role in the success of the group, utilizing your unique skills and abilities to overcome challenges and achieve common goals.

Disclaimer: This is fictitious SRE job title generated by AI!



D&D Metaphor

- Balance of technical and soft skills, creativity and **teamwork**.
- Ability to stay calm under pressure and **adapt** to changing situations.
- Strong **problem-solving skills** and teamwork are essential.
- **Think creatively** and strategically to overcome **obstacles** and achieve objectives.
- Ensure systems are **scalable** and **observable**.
- **Remove ambiguity** and build shared **consensus** across groups.
- Play a crucial role in the **success of the group**, utilizing your **unique skills and abilities** to overcome challenges and **achieve common goals**.



Let our journey begin!

Team
Diverse Skills
Shared Purpose
Adversities



D&D Abilities

- **Strength:** Measures physical power
- **Dexterity:** Measures agility
- **Constitution:** Measures endurance
- **Intelligence:** Measures reasoning and memory
- **Wisdom:** Measures perception and insight
- **Charisma:** Measures force of personality



SRE Abilities

- System Design, Coding, Architecture
- Adaptability, Dealing with ambiguity
- Resilience, Persistence, Calm under pressure
- Strategic alignment, Seeing the bigger picture, Driving clarity
- Intuition, Technical gut
- Soft Skills, Communication



No one have all the abilities at 100%!

...which is why we need a team!

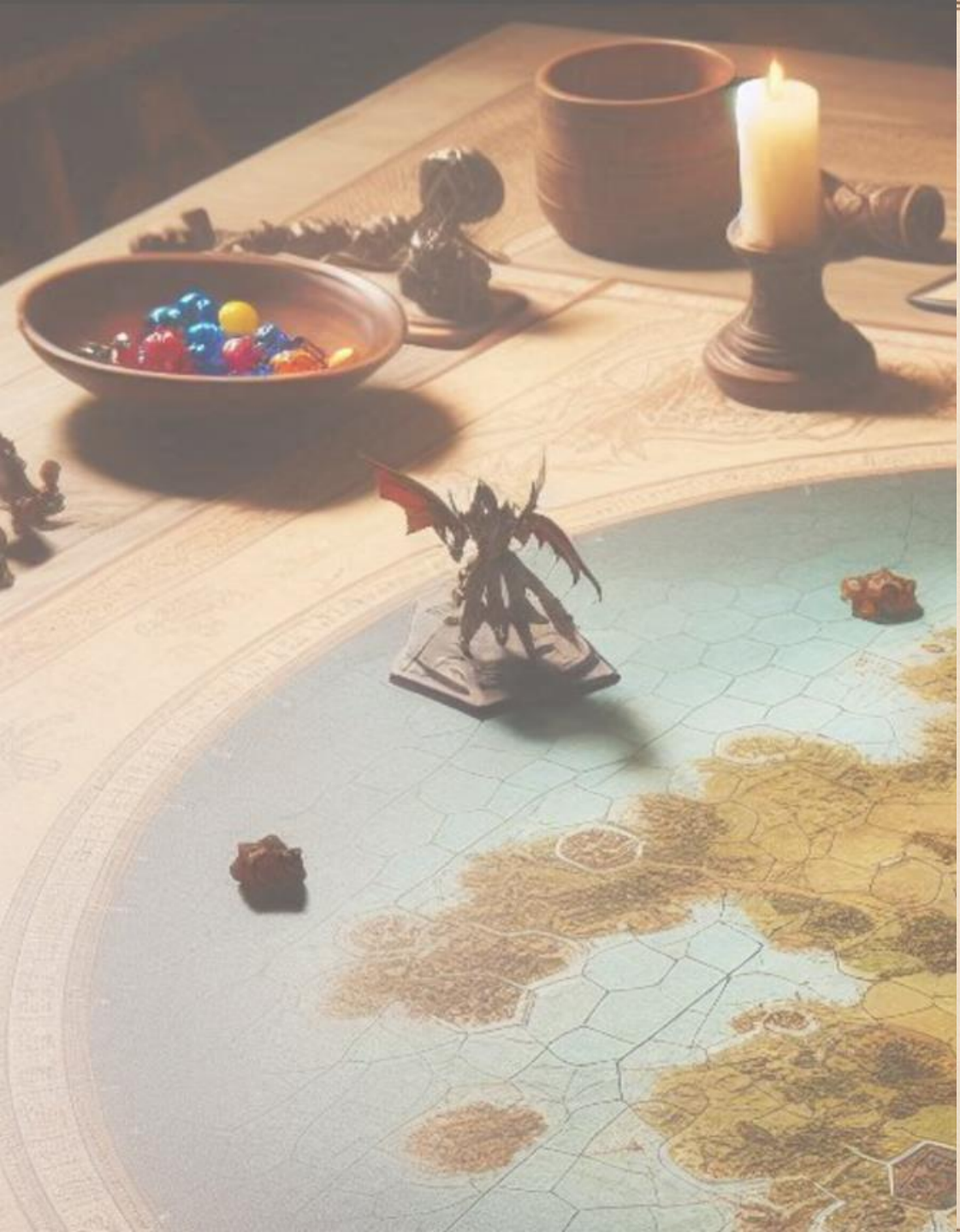


The ~~Hero~~ Team

Team is more than sum of its parts







Lets build out team next...





G' Abe

Abilities

	Coding	|||||	
	Architectures	|||||	
	System Design	|||||	
	Problem Solving	|||||	
	Adaptability	|||||	
	Collaboration	|||||	
	Intuition	|||||	
	Strategy	|||||	
	Analytical	|||||	
	Logical	|||||	
	Detail Oriented	|||||	
	Efficiency	|||||	

Jedi Master


Strength


Charisma


Wisdom


Dexterity

HP

Architecture
Strategy

0 | 100

Analytical
Intuition

0P

0P

Special Powers

Clarity ██████████

Empathy ██████████

Multi-Dimensional Realms |-----|

Achievements Unlocked








On Call

██████████

Feature Backlog

██████████

Tickets ██████████

Incidents ██████████

Jedi Master

Strength Charisma Wisdom Dexterity

Architecture Strategy Analytical Intuition

Special Powers

Clarity Empathy Multi-Dimensional Realms

Achievements Unlocked

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G' Abe

Abilities

- Coding
- Architectures
- System Design
- Problem Solving
- Adaptability
- Collaboration
- Intuition
- Strategy
- Analytical
- Logical
- Detail Oriented
- Efficiency



I'Lari

Abilities

- Coding
- Architectures
- System Design
- Problem Solving
- Adaptability
- Collaboration
- Intuition
- Strategy
- Analytical
- Logical
- Detail Oriented
- User Experience

Visionary

Strength Charisma Wisdom Dexterity

Inclusivity Detail Oriented Problem Solving Coding

Special Powers

User Experience Team Builder

Nicest engineer EvAr! CO

Achievements Unlocked

On Call

Feature Backlog

Tickets

Incidents



G' Abe

Jedi Master

Strength Charisma Wisdom Dexterity

Architecture Strategy Analytical Intuition

Special Powers

Clarity Empathy

Multi-Dimensional Realms



I'Lari

Abilities

Coding Architectures System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented Efficiency

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Feature Backlog

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Incidents



T' Ema

Abilities

Coding Architectures System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented Security

Coding Ninja

Strength Charisma Wisdom Dexterity

Adaptability Detail Oriented Analytical Collaboration

Special Powers

Coding Integration

Happiness Officer

Achievements Unlocked

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G' Abe

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Strategy
Analytical
Logical
Detail Oriented
Efficiency

Visionary

Strength Charisma Wisdom Dexterity

Inclusivity
Detail Oriented
Problem Solving
Coding

Special Powers

User Experience
Team Builder

Nicest engineer EvArI CO—51

Achievements Unlocked



T'Em

Abilities

Coding
Architectures
System Design
Problem Solving
Adaptability
Collaboration
Intuition
Strategy
Analytical
Logical
Detail Oriented
Security

Strength Cha

Adaptability
Detail Oriented

Special Powers

Coding
Integration
Happiness Officer

Achievements Unlocked

On Call
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D'Ave

Abilities

Coding
Architectures
System Design
Problem Solving
Adaptability
Collaboration
Intuition
Strategy
Analytical
Logical
Detail Oriented
Compliance

The Architect

Strength Charisma Wisdom Dexterity

Intuition
Detail Oriented
Problem Solving
Logical

Special Powers

Compliance
Security

Master of Standards CO—51

Achievements Unlocked

On Call

Feature Backlog

Tickets
Incidents



G' Abe

Jedi Master

Strength Charisma Wisdom Dexterity

Architecture Strategy | Analytical Intuition

Special Powers

Clarity
Empathy

Multi-Dimensional Realms

I'Lari

Abilities

Coding Architectures System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented Efficiency

Abilities

Coding Architectures System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented User Experience



D'A

Visionary

Strength Charisma Wisdom Dexterity

Inclusivity Problem Solving Detail Oriented Coding

Special Powers

User Experience
Team Builder

Nicest engineer EvArt CO

Achievements Unlocked

Abilit

Coding Architectures System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented Compliance

T'Ema

Abilities

Coding Architectures System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented Security

Abilities

Coding Architectures System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented Security

D'Aria

Abilities

Automation Architectures System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented Communication

Observability Diva

Strength Charisma Wisdom Dexterity

Intuition Adaptability | Analytical Collaboration

Special Powers

Data Addict
Community Builder
Master of Storytelling

Achievements Unlocked

On Call
Feature Backlog
Tickets
Incidents



Jedi Master

Strength Charisma Wisdom Dexterity

Architecture Strategy Analytical Intuition

Special Powers

Clarity Empathy Multi-Dimensional Realms



Visionary

Strength Charisma Wisdom Dexterity

Inclusivity Problem Solving Detail Oriented Coding

Special Powers

User Experience Team Builder

Achievements Unlocked



The Wise One

Strength Charisma Wisdom Dexterity

Coding Analytical Problem Solving Logical

Abilities

Coding Architecture System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented Efficiency

I'Lari

Abilities

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Abilities

Coding Architecture System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented Documentation

Special Powers

System Design Documentation Hyper Focus

Achievements Unlocked

On Call

Feature Backlog

Tickets Incidents



Jedi Master

Strength Charisma Wisdom Dexterity

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Special Powers

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Multi-Dimensional Realms



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Nicest engineer EvArI CO-51

Achievements Unlocked

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Inclusivity Problem Solving Detail Oriented Coding

Special Powers

User Experience
Team Builder

Nicest engineer EvArI CO-51

Achievements Unlocked

Abilities

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Problem Solving
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Collaboration
Intuition
Strategy
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Logical
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Compliance



Abilities

Automation
Architectures
System Design
Problem Solving
Adaptability
Collaboration
Intuition
Strategy
Analytical
Detail Oriented
Dedicated

Reliability Guardian

Strength Charisma Wisdom Dexterity

Dedication Standards Collaboration Detail Oriented

Special Powers

Incident Management
Automation
Master of Chaos

Achievements Unlocked

On Call

Feature Backlog

Tickets
Incidents

Abilities

Coding
Architectures
System Design
Problem Solving
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Collaboration
Intuition
Strategy
Analytical
Logical
Detail Oriented
User Experience

T' Ema

Abilities

Coding
Architectures
System Design
Problem Solving
Adaptability
Collaboration
Intuition
Strategy
Analytical
Logical
Detail Oriented
Security

Abilities

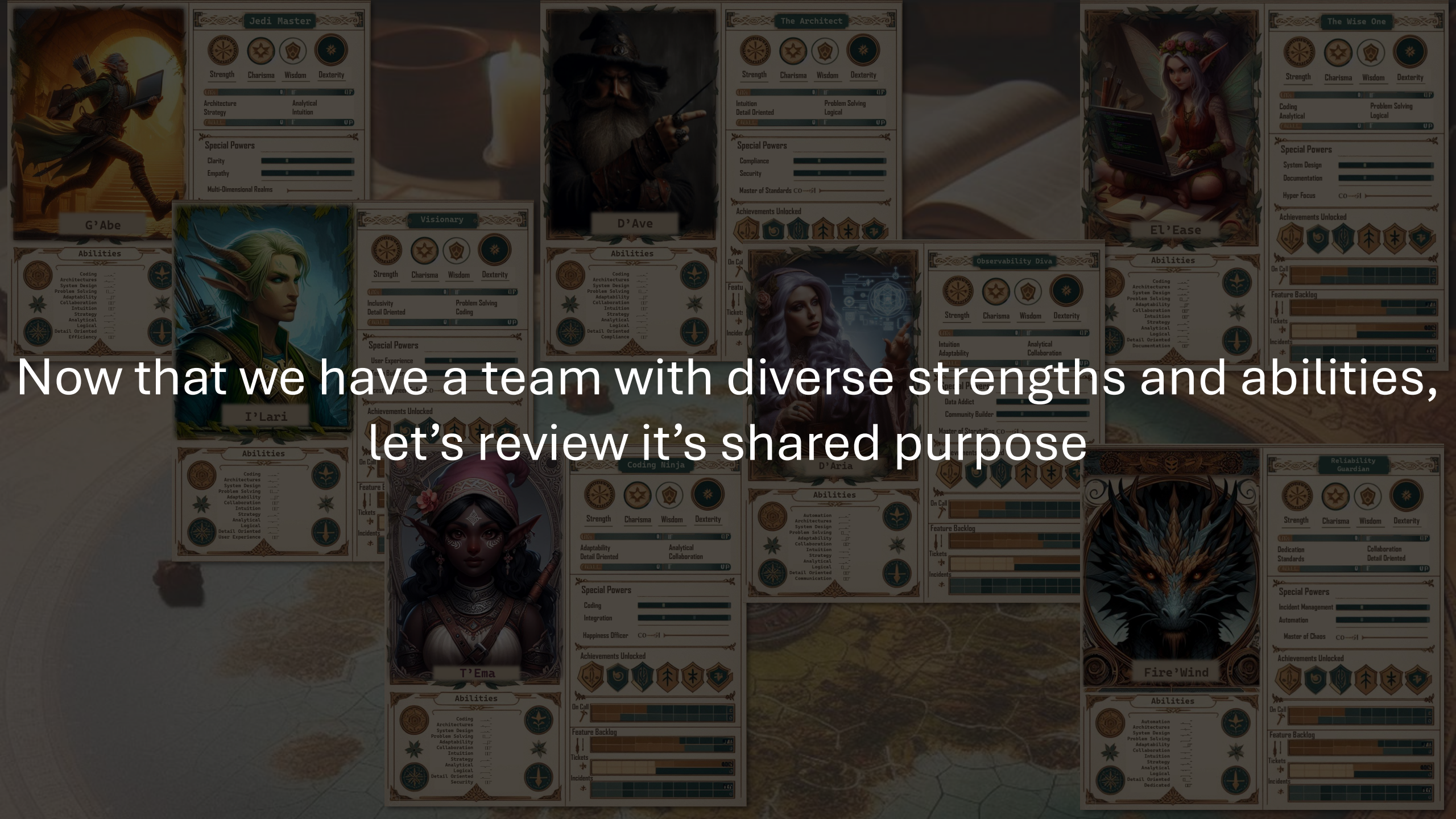
Coding
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System Design
Problem Solving
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Intuition
Strategy
Analytical
Detail Oriented
Compliance

Abilities

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Abilities

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Jedi Master

Strength Charisma Wisdom Dexterity

Architecture Strategy Analytical Intuition

Special Powers

Clarity Empathy Multi-Dimensional Realms

Visionary

Strength Charisma Wisdom Dexterity

Inclusivity Problem Solving Detail Oriented Coding

Special Powers

User Experience

Achievements Unlocked

The Architect

Strength Charisma Wisdom Dexterity

Intuition Problem Solving Detail Oriented Logical

Special Powers

Compliance Security Master of Standards

Achievements Unlocked

Observability Diva

Strength Charisma Wisdom Dexterity

Intuition Analytical Adaptability Collaboration

Special Powers

Data Addict Community Builder Master of Storytelling

Achievements Unlocked

Reliability Guardian

Strength Charisma Wisdom Dexterity

Dedication Standards Collaboration Detail Oriented

Special Powers

Incident Management Automation Master of Chaos

Achievements Unlocked

Fire'Wind

Automation Architecture System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Dedicated

Reliability Guardian

Strength Charisma Wisdom Dexterity

Dedication Standards Collaboration Detail Oriented

Special Powers

Incident Management Automation Master of Chaos

Achievements Unlocked

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Coding Architecture System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented User Experience

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Abilities

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D'Ave

Abilities

Coding Architecture System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Detail Oriented Compliance

Coding Ninja

Strength Charisma Wisdom Dexterity

Adaptability Analytical Detail Oriented Collaboration

Special Powers

Coding Integration Happiness Officer

Achievements Unlocked

Observability Diva

Strength Charisma Wisdom Dexterity

Intuition Analytical Adaptability Collaboration

Special Powers

Data Addict Community Builder Master of Storytelling

Achievements Unlocked

El'Ease

Abilities

Coding Architecture System Design Problem Solving Adaptability Collaboration Intuition Strategy Analytical Logical Documentation

The Wise One

Strength Charisma Wisdom Dexterity

Coding Problem Solving Analytical Logical

Special Powers

System Design Documentation Hyper Focus

Achievements Unlocked

Now that we have a team with diverse strengths and abilities, let's review it's shared purpose



Shared Purpose

Keeping the (complex) system running reliably

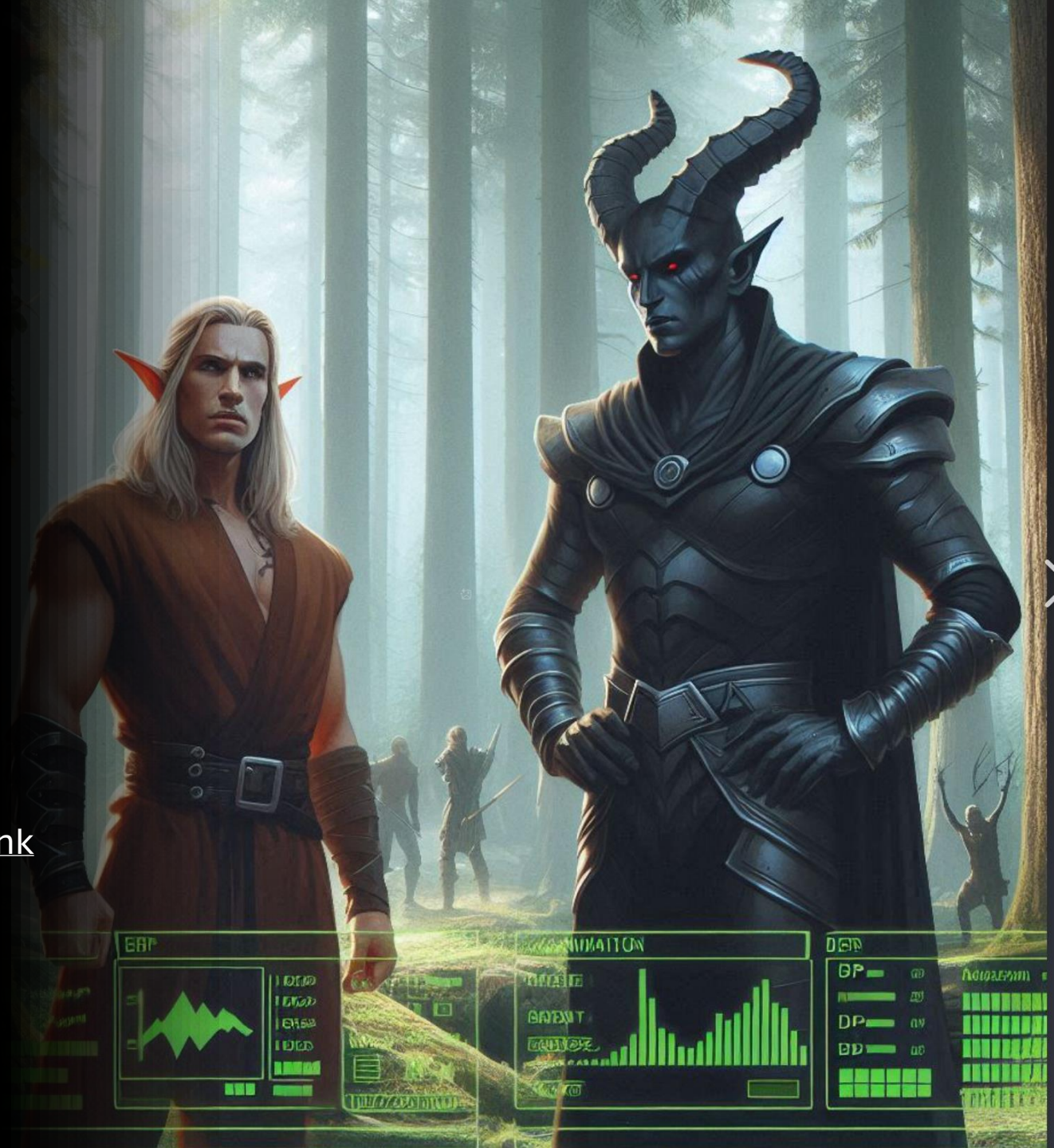
- While dealing with adversities...
- ...because complex systems run in a permanent failure mode
- ...and changes increase system entropy introducing new forms of failure
- ...but change is inevitable - we can only control our reaction to it!
- We keep the balance between innovation velocity and system reliability
- And our teams are a key part of the complex systems we run



Heroism and Villainy

*“Villainy and heroism share a symbiotic relationship within the realm of storytelling and mythology. The presence of a **compelling villain** often serves as a **catalyst for the emergence of a hero**, creating a narrative tension that propels the hero’s journey.”*

[Villainy and Its Relationship to Heroism | SpringerLink](#)



The ~~Villain~~ Adversity

The Villain (Adversity) is an antagonist of the Hero (Team).

Adversities and challenges...make the whole team stronger!

Outages, abrupt changes in scope and priorities are challenges that trigger the team (and the individual) to regroup, develop new capabilities and level up.





Photo by Johndedios - Own work, CC BY 3.0

Biosphere 2

University of Arizona Biosphere 2 is an American Earth system science research facility located in Oracle, Arizona.

Its mission is to serve as a center for research, outreach, teaching, and lifelong learning about Earth, its living systems, and its place in the universe.

Some trees inside the Biosphere 2 suffered from etiolation and **weakness caused by lack of stress wood, normally created in response to winds in natural conditions.**

[Source: Biosphere 2 - Wikipedia](#)

Adaptability

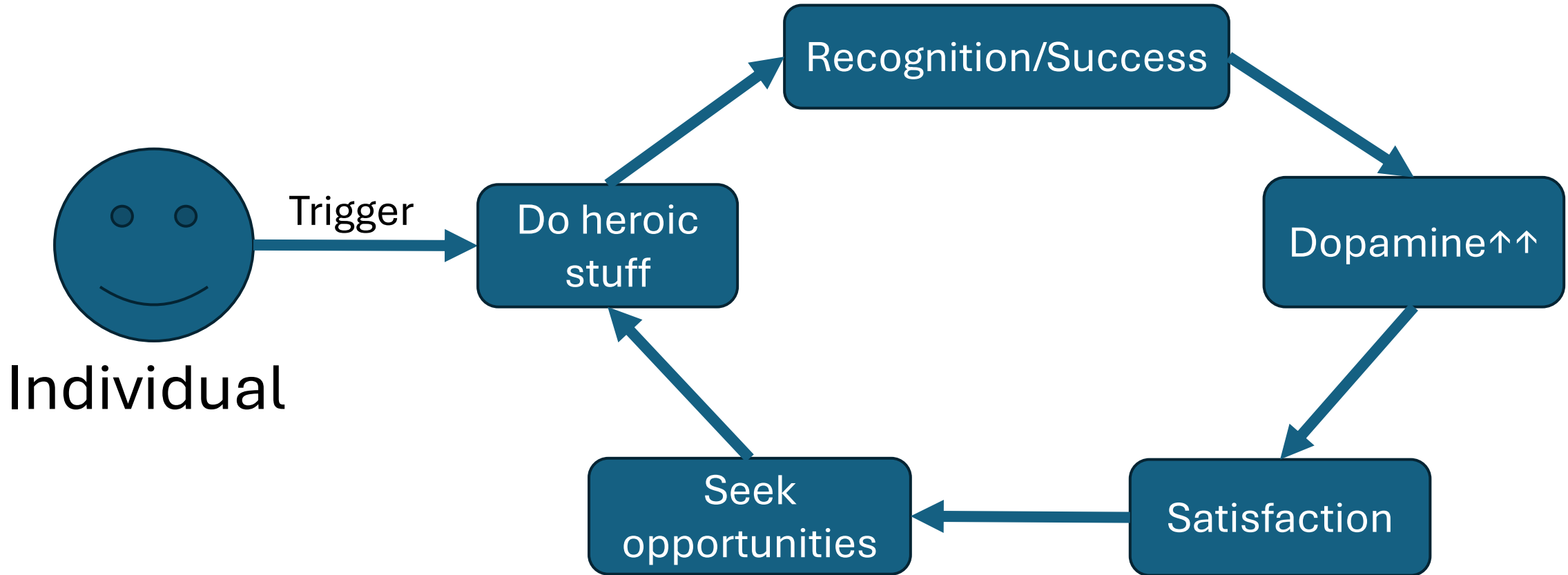
- Individual adaptability
- Team adaptability
- System resiliency



The rise of a superhero



How (super) heroes are born?



***Dopamine** is a neurotransmitter that plays a key role in the brain's reward system.*

Impact of the hero on the team (and the system)

When problem arise one of your team members jumps onto it and solves it...
... and keep doing it repeatedly.

Short term – saves the day and have positive impact!

Long term – negative impact, especially when team start relying on it!

- Siloed (undocumented) knowledge
- Hero is a Single Point of Failure (SPOF) in your system
- Unsustainable: hero burnout (or departure)
- Unrealistic expectations (from the team and the system)
- Bad role model
- Ineffective new team members onboarding

Note: If your on call relies on heroism – your systems and processes need to improve!



Reducing heroism

- Recognize there is a problem
- Rotate feature ownership
- Restructure your on call (try 2-tiered system)
- Reduce tacit knowledge – documentation, training, shadowing

Let things break!

If no one knows there is a problem, and it won't get funded and fixed!



A group of dwarves are gathered around a large fire in a cave. In the center, a large black cauldron sits on a tripod over the fire, containing a bubbling green liquid. A dwarf with a long white beard and a pointed hat is stirring the cauldron with a wooden spoon. To his right, another dwarf with a long white beard and a pointed hat is tending to a wooden barrel. In the foreground, several pumpkins are scattered on the ground, including one carved into a jack-o'-lantern. The background shows other dwarves in various poses, some holding tools or weapons. The scene is dimly lit, with the primary light source being the fire.

SRE team Contexts & Structure

Disclaimer

Proposed 5 SRE team types are not specific to one organization and rather an abstraction of different types of SRE teams I observed across industry

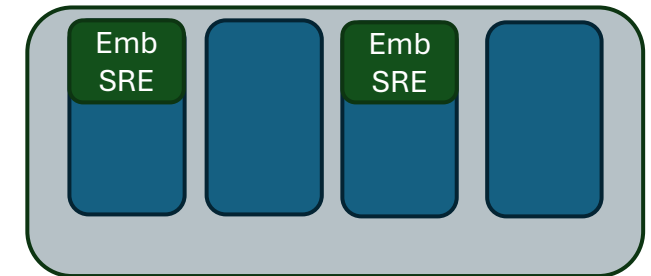
Each one of the types rarely exists in its pure form or on its own



Embedded SRE

Part of the development team with the ownership **scoped to specific area**

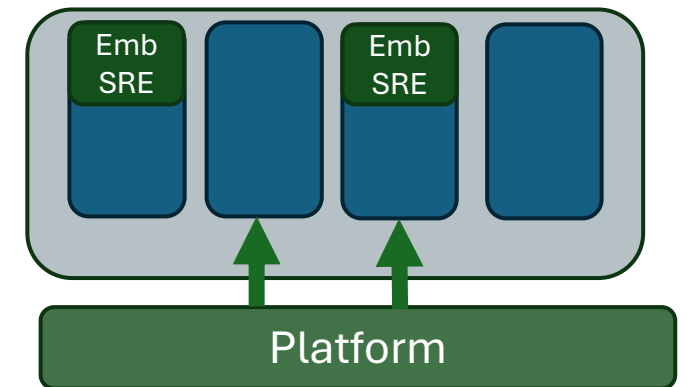
- **For example:** deployments, incident response, etc...
- **Reporting structure:** either through DEV or through dedicated SRE organization;
- **Pros:** high domain knowledge, direct accountability;
- **Cons:** line blurry line between SRE and DEV and may lose focus on SRE aspects of the job due to 'feature' pressure;



Platform SRE

Owns a product/part of the platform that plays key role in cross-service reliability. Runs that part of the platform and helps with integrations.

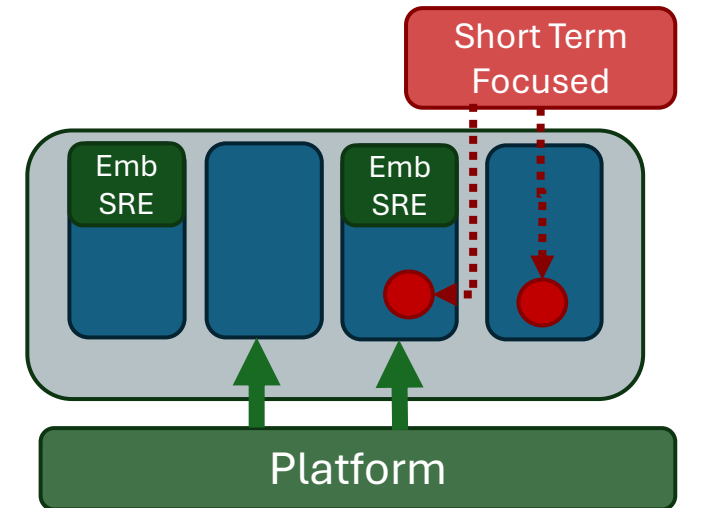
- **For example:** automation framework, common infra components, etc...
- **Reporting structure:** either shared between multiple DEV teams at a higher level or dedicated SRE organization;
- **Pros:** 'glue' role/router in complex systems to shorten time to mitigate;
- **Cons:** lesser domain knowledge in a specific area so often requires pairing with service subject matter experts (SME) in incident (as example);



Short Term Focused SRE

Technical short term consultancy model with temporary allocation of experienced SRE to support product changes to improve its reliability.

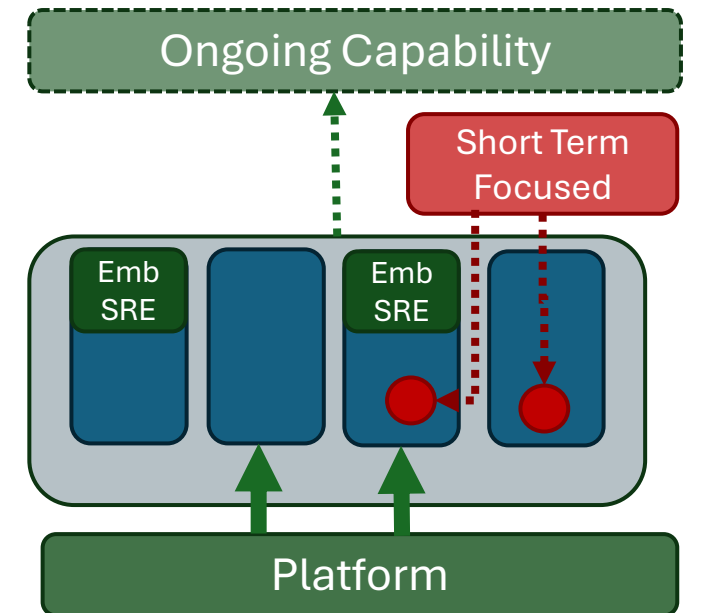
- **For example:** Hands on, short term (for ex. semester), SRE will work together with DEV team, update code, focus on solving specific problem;
- **Reporting structure:** usually through dedicated SRE organization;
- **Pros:** good for spikes in specific focus, develop strong problem domain knowledge to help many;
- **Cons:** low accountability, low service domain knowledge, potentially costly to ramp up in heterogenous infrastructures;



Ongoing Capability SRE

Provides service to multiple teams in a specific reliability area. Practice focused. Doesn't own specific product but may build internal tools that support the practice. A mix of practitioners and program managers.

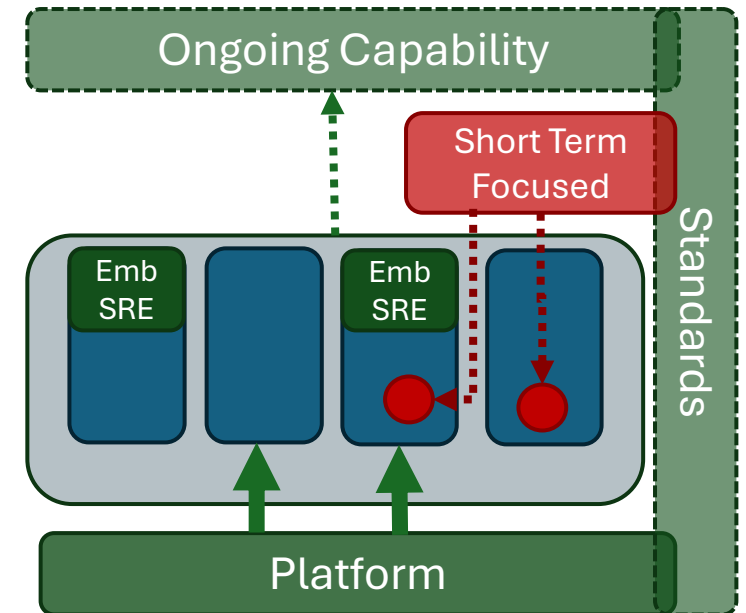
- **For example:** incident response, reliability/operational maturity dashboards, etc...;
- **Reporting structure:** usually through dedicated SRE organization;
- **Pros:** consistent focus on the SRE tenants and normalization across multiple services;
- **Cons:** less accountable, typically less service domain knowledge;



Standards SRE

Central team overseeing reliability state and maturity across multiple teams and identifying gaps in reliability practices. Defines reliability standards and tracks adoption of those standards. Program/project management heavy

- **For example:** Identify platform gaps that prevent standardization around reliability practices and helps to address the gap;
- **Reporting structure:** usually through dedicated SRE organization;
- **Pros:** dedicated focus to drive a concrete initiative;
- **Cons:** difficult to build trust with the team being so disconnected, no grounding as no active service attachment;

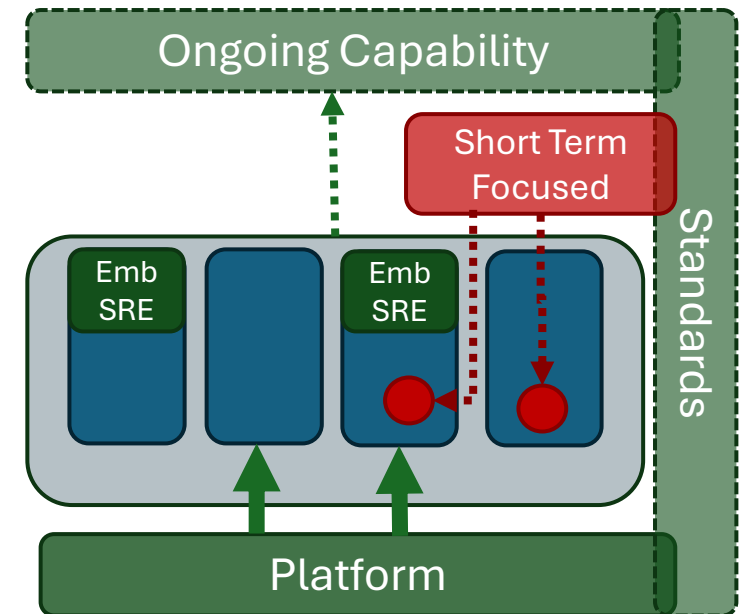


SRE team: Contexts & Structure

Examples of SRE teams

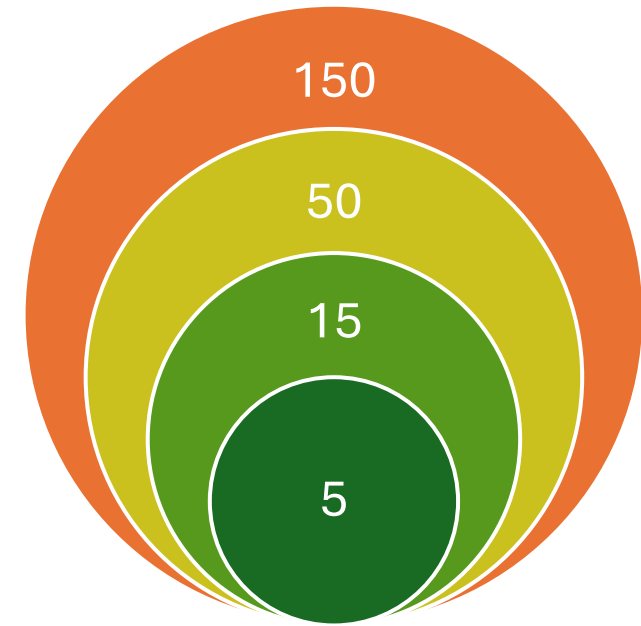
- Embedded
- Platform
- Short Term Focused
- Ongoing Capability
- Standards

Multiple team setups would exist at the same time, collaborating and influencing each others backlog and priorities.



SRE Team Size

- Have at least...
 - ...5 people in a team (think of oncall cadence)
 - ...2 senior engineers
 - ...1 glue team member
 - ... 1 force multiplier with an interest in elevating the team
 - ...1 common workstream
 - ...1 opportunity to celebrate achievements (weekly!)
 - ...5 buckets of measures of success
 - Customer satisfaction
 - Business growth
 - Platform reliability
 - Operational maturity
 - Team satisfaction



*“**Dunbar's number** is a suggested cognitive limit to the number of people with whom one can maintain stable social relationships—relationships in which an individual knows who each person is and how each person relates to every other person.”*

Neocortex size as a constraint on group size in primates - ScienceDirect



Transformation Journey

Building your Abilities and Skills

Building Technical Gut and Intuition

“How is technical gut and intuition and smell developed? Certainly by doing, by osmosis, by time, by sleeping, and waking, and doing it again.

I think it's exposure. It's exposure to a diverse set of technical problems that all build on a solid base of fundamentals.”

Scott Hanselman



Being Intentional

“The key is not to prioritize what's on your schedule, but to schedule your priorities.”

Stephen Richards Covey



Transformation Journey

Step by Step

Things you are good at

Unavoidable Space

Comfort Zone

Thing A



Things I am good at, but don't necessarily love doing

Things I am good and love doing

- + Easy and rewarding (dopamine spike)
- Not particularly exciting to do
- + Frequently unblocks more exciting stuff

- + gives you energy and rewards
- doesn't challenge you
- no learning happening here

Unexciting stuff

Things you love doing

Things I don't like doing and I am bad at

Things I am not good at, but love doing

- + stretches your capabilities
- + build resilience
- energy draining and slow to see results

- + gives you energy
- + repetition will lead to mastery
- can be demotivating



!Comfort Zone

Learning Space

Thing B

Transformation Journey

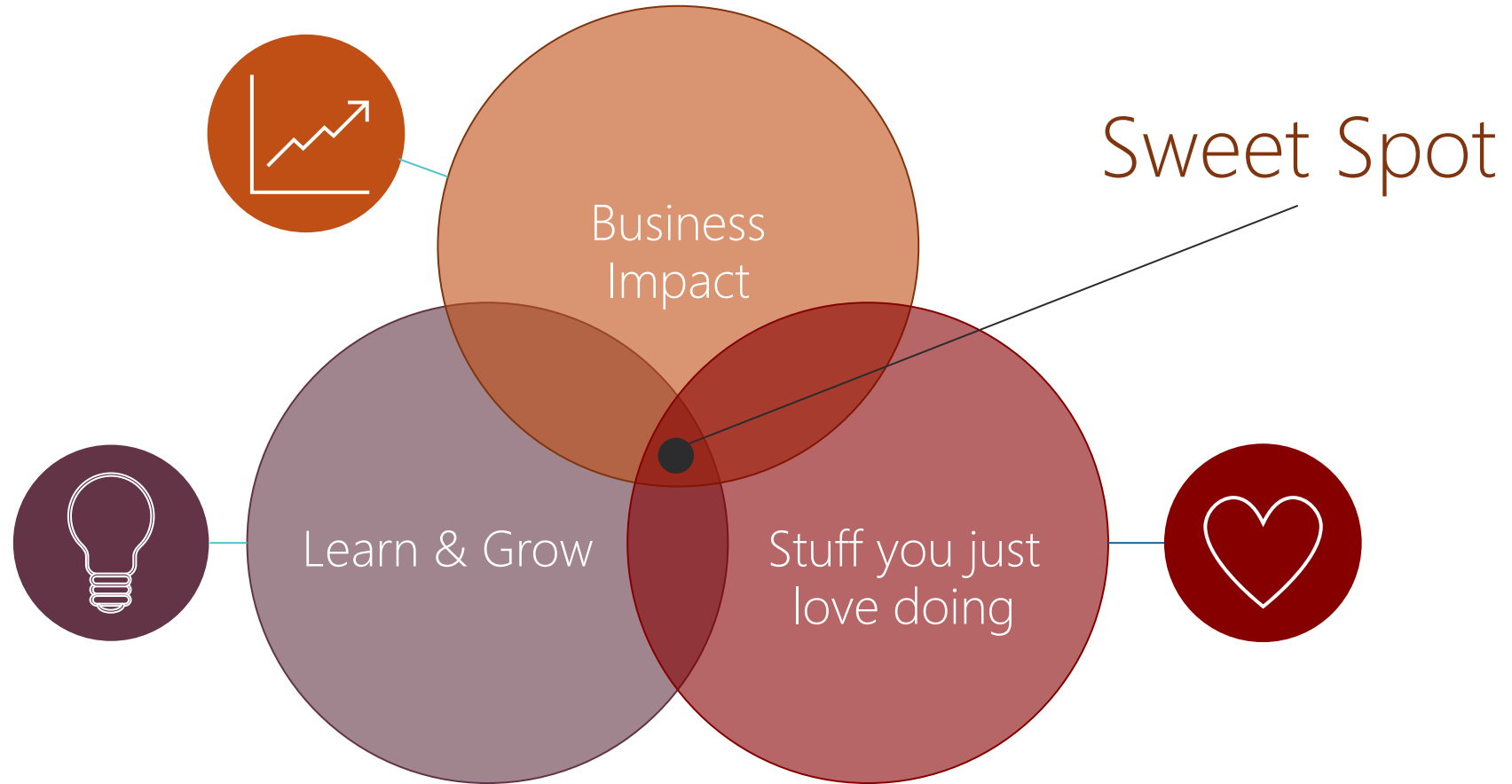
Example Matrix

Areas	Effort and Time required	Competences I develop	Organizational impact (huge, big, small, tiny)
Data Analysis	(write here different things you do and how much time it takes you on a regular basis. For example, "Weekly review – 1 hour/week")	...	
Security			
Standards			
Culture and Education	...	...	...
On Call	...	...	...
Rhythm of the Business	...	...	...
Mentoring	...	...	...

 Add thumbs up if you are good at it

 Add heart if you love doing it

This talk wouldn't be real thing if I didn't add the Venn diagram 😊



Transformation Journey

Step by Step

Things you are good at

Unavoidable Space

Comfort Zone

Things I am good at, but don't necessarily love doing

Thing A – Big business impact, keep doing

Thing B – Some business impact, but takes a lot of time, pause or delegate



Things I am good and love doing

Thing G – Big business impact – keep doing

Thing H – No business impact, but gives you energy – keep doing or pause?

Unexciting stuff

Things you love doing

Things I don't like doing and I am bad at

Thing D – generate business impact, keep doing

Thing E – drains your energy, low impact, stop doing



!Comfort Zone



Learning Space

Things I am not good at, but love doing

Thing J – low business impact, but you are building critical skills - keep doing

Thing K – some business impact, but takes a lot of time from other things - pause



Abilities

Automation	||||
Architectures	||||
System Design	||||
Problem Solving	||||
Adaptability	||||
Collaboration	||||
Intuition	||||
Strategy	||||
Analytical	||||
Logical	||||
Detail Oriented	||||
Communication	||||

Observation

Strength Charisma

Intuition Adaptability

Special Powers

Data Addict

Community Builder

Master of Storytelling

Achievements Unlocked

On Call

Feature Backlog

Tickets

Incidents

Transformation Journey

Key Takeaways

- Start with **understanding where you are** in different skills
 - identify your **natural strengths** and create your Adventurer card
- Who are your **role models and mentors**?
- What **skills** you want to develop in the next 6 months?
- Look at **what you spend your time on**
 - Work projects
 - Community engagements
 - Personal hobbies
- Use the matrix and **be intentional** about your priorities.
- **Get help** from your manager, mentor, community



Many ways to practice...

- Work groups/Discussion groups
- Direct/Reverse Shadowing
- Onboarding buddies
- Code Reviews
- Joint Retrospective Reviews/Risk Threat Modelling discussions
- 1:1 mentoring

Into the Dungeon

Dealing with the on call

“For many adventuring parties the dungeon is where they encounter many of their adversities, and this is the opportunity for them to level up.”

by Dave Lubash, D&D expert



Into the Dungeon

Dealing with the on call

- On call satisfaction goes beyond the volume of pages!
- It's about agency and team culture
 - Trust
 - Blameless culture: It's ok to fail!
 - Technical literacy and hands-on experience
 - Onboarding. Training. Documentation
 - Communication and Collaboration
 - Accountability & Ownership
 - Feedback Loop
- Emotional Contagion (Trust, Empathy, Context)
- Impact on your stress levels - (NUTS) Novelty, Unpredictability, Threat to Ego, Sense of Control



Be an agent of change!

Dealing with the on call

- Keep documentation up to date
- Build feedback loops (survey, Interviews)
- Communicate! A lot!
- Take ownership of a problem
- Build horizontal workstreams – connect across teams
- Practice proactive empathy
- Build trust – be consistent
- Praise successes
- Failing is a way of learning (fast)
- Share your experiences
- Find a mentor
- Become a mentor



Key Takeaways

- Improve resilience and adaptability of individual, team and the service
- Watch out for red flags to avoid the rise of “Hero as a Service”
- See disruptors and adversity as an opportunity to grow
- Be intentional about your own transformation journey and know your strength and learning opportunities
- Going into the dungeon builds your strength and resiliency – all the interesting things happen there!
- Overcoming fears and helping others to overcome their fears builds culture of trust and mutual support and makes team stronger
- When we overcome challenges together – we create “stress wood” making team stronger
- Leave the safety of your comfort zone to upskill!



Q&A

