



The 7 Habits of Highly Mature Products

Inspired by The 7 Habits of Highly Effective People

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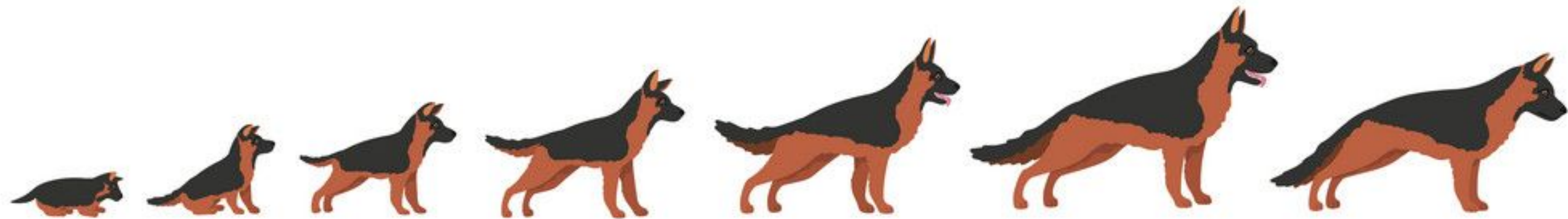
- Chief Operating Officer, elttam
Security Testing Partner of Australia's Top Technology Teams
- Director (Pacific), Trustwave SpiderLabs
- Various technical security consulting roles
- Embedded electronics engineer - automotive
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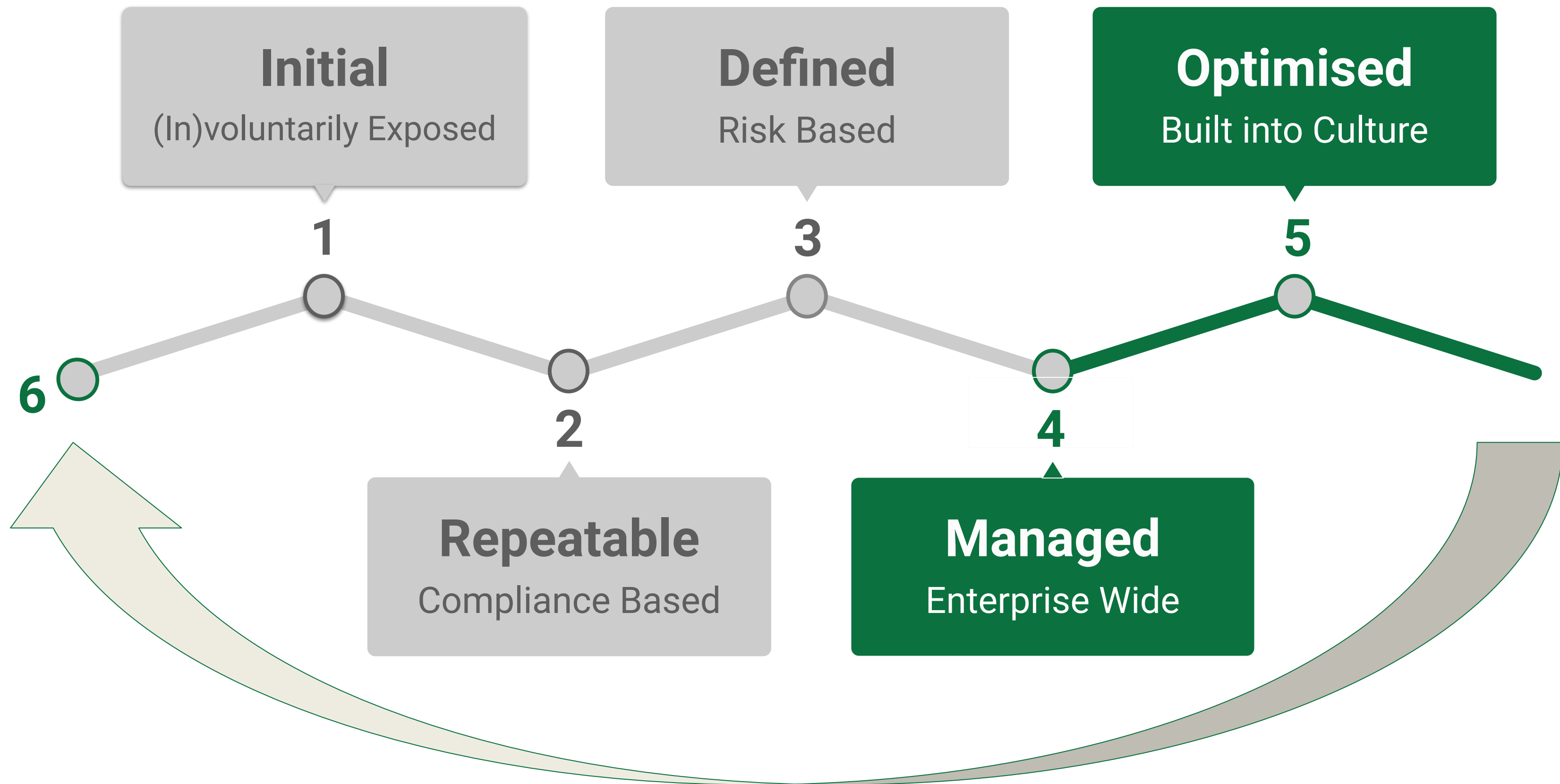
Agenda

1. The 7 stages of security maturity
2. The 7 observations of growing pains
3. The 7 habits to growing a highly mature product

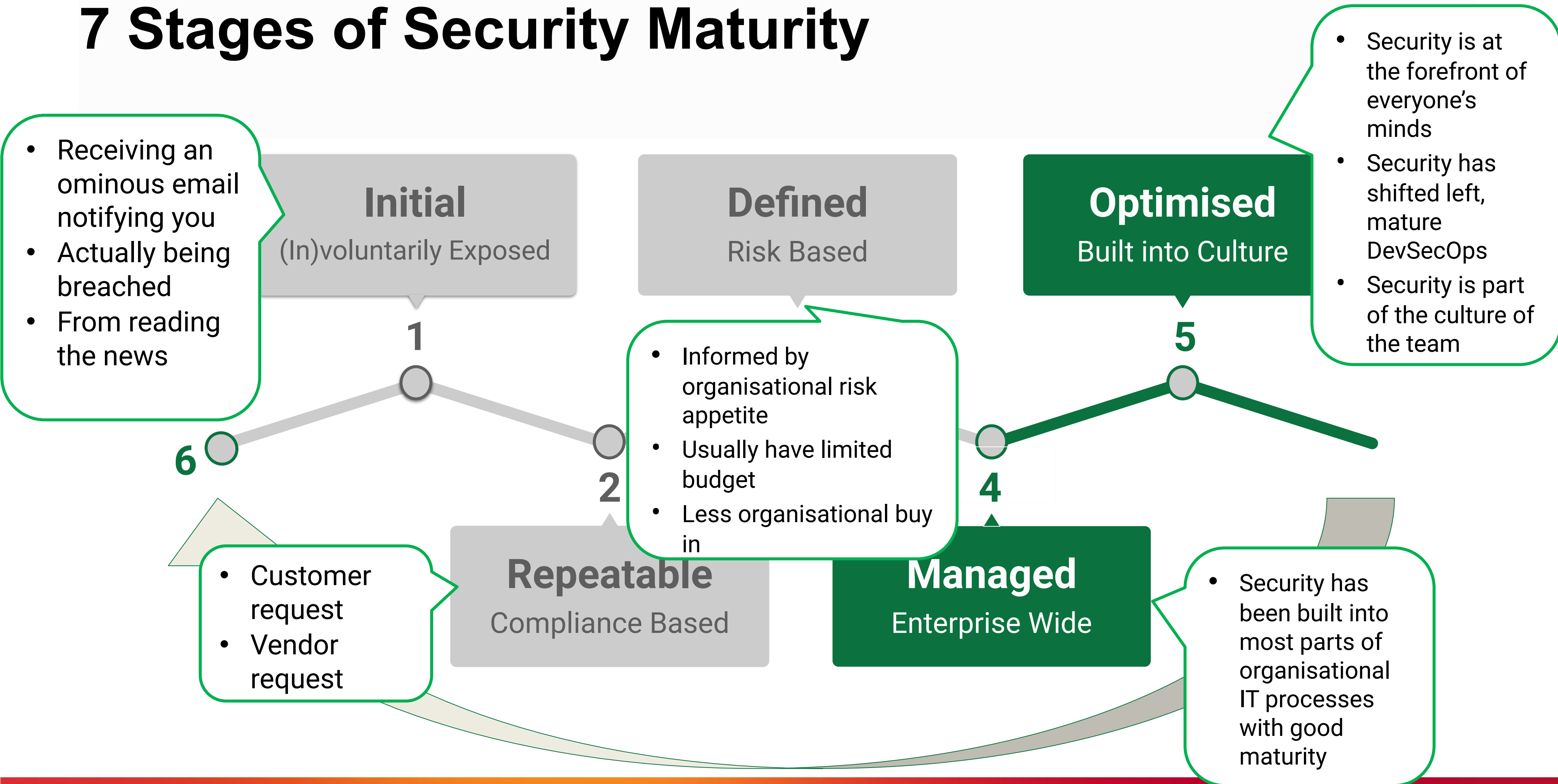


7 Stages of Security Maturity

Referenced from NIST CSF Maturity Model

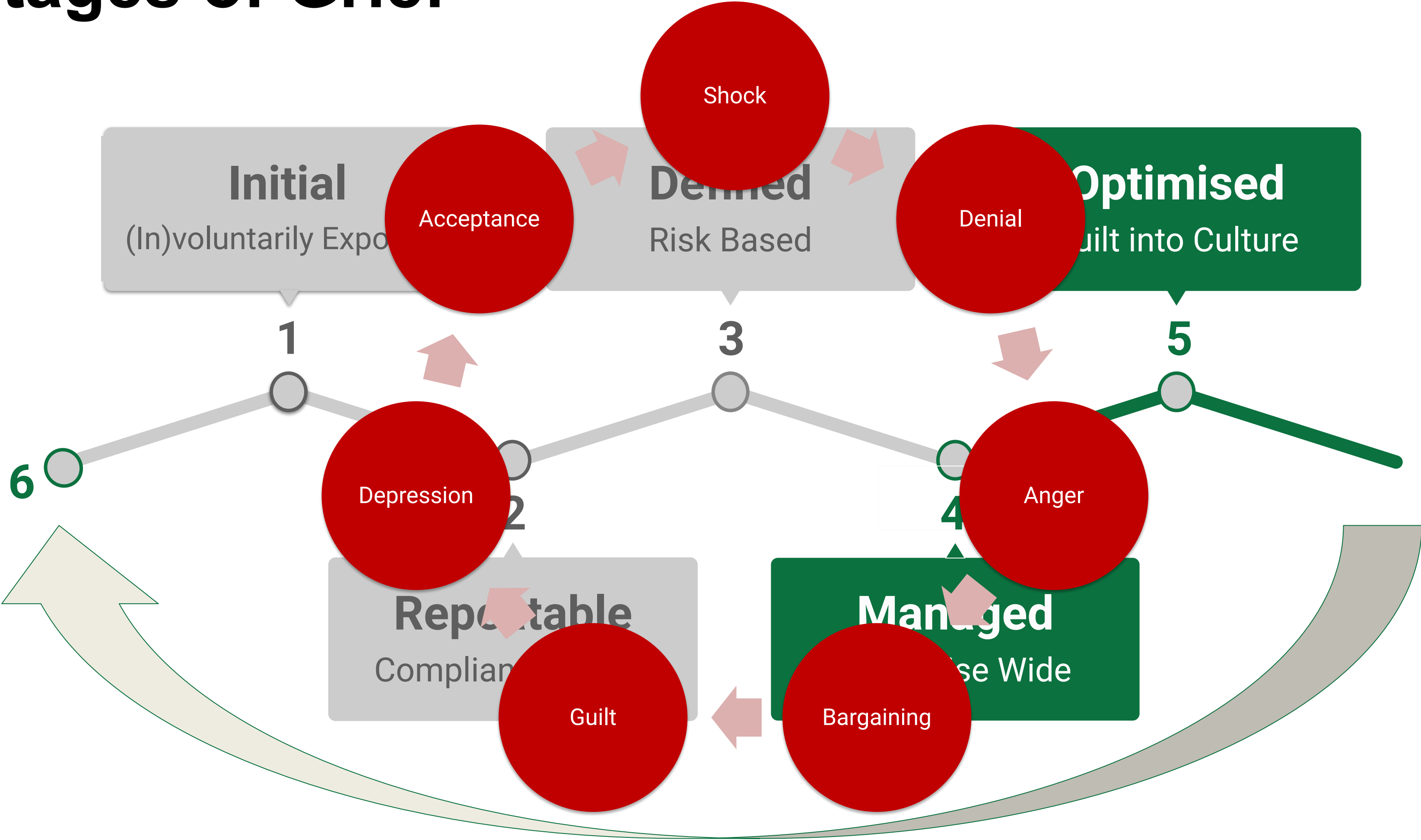


7 Stages of Security Maturity



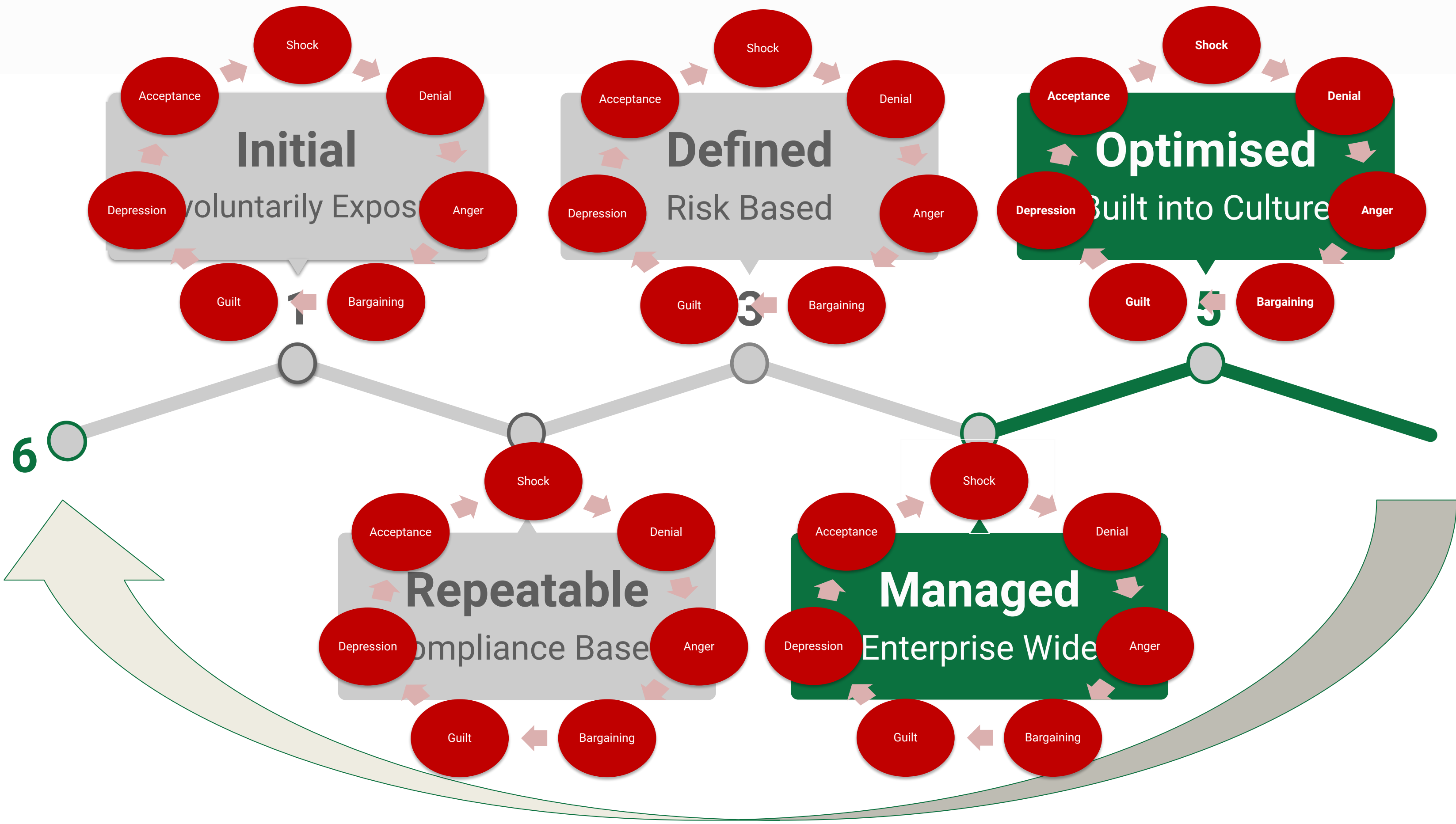
7 Stages of Grief

7 ??



7 Observations of Growing Pains

7 ??



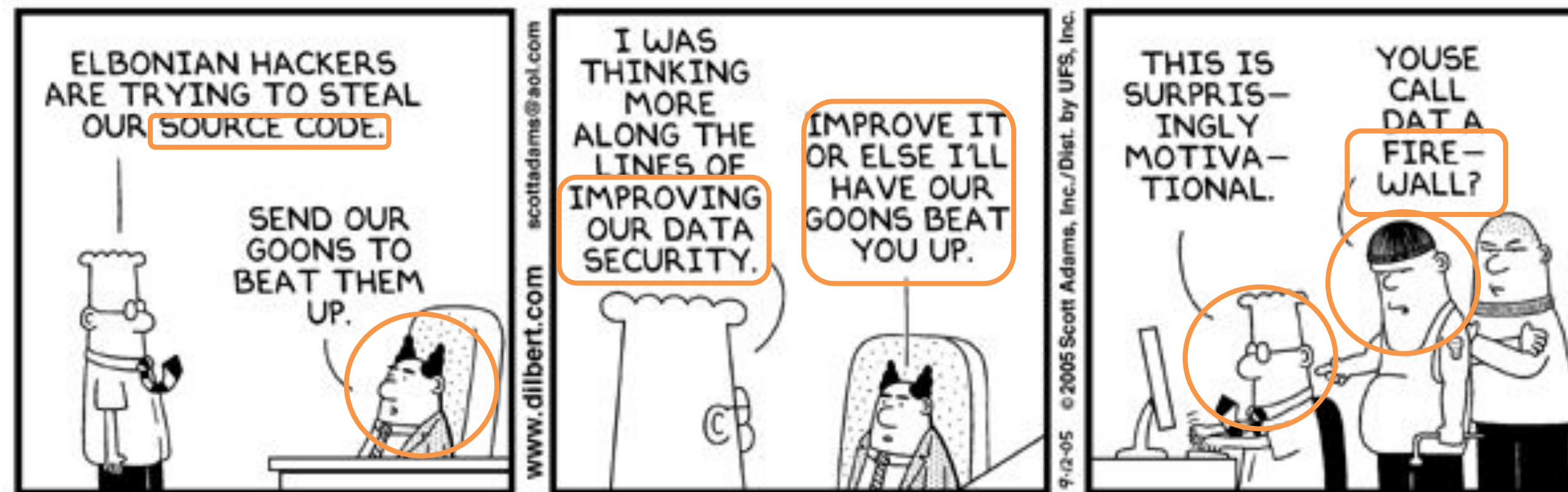
7 Observations of Growing Pains



1. Uninformed comparison
2. Competing stakeholders and priorities
(not well received)
3. Overwhelmed with choices, tooling,
methodology, un/trusted sources / advisory
4. Not having the required skill set
5. Budget restrictions
6. 50 teams all working independently
(500 people within also working
independently)
7. Scapegoat sacrificial lamb

7 Habits to Growing a Highly Mature Product

3 Core Areas



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People



Process

Do this or else ...

Technology

Source Code

Data Security

Firewall

The 7 Habits of Highly Mature Products

- 1 Quick Wins
- 2 Be Contextual
- 3 Templatise Everything
- 4 Shift Left, Rinse and Repeat
- 5 Cultivate Shared Responsibility
- 6 Monitor & Log
- 7 Right People in Right Seats

The 7 Habits of Highly Mature Products

1. Quick Wins (work smart not hard)

Goal: Achieve quick, impactful results with minimal resources

People

- Probably at Initial stages of security journey
- Lacks internal support, requires “ice breaking”, and buy in
- Decisions are usually reactive
- Minimal resources available

Process

- Select top 3 high impact and low resource items, apply immediate mitigation; Repeat periodically until the next new lifecycle
- Raise security awareness in parallel while applying quick wins

Technology

- Must be achievable with the resources available
- Must be possible to achieve quickly
- Document, track progress of quick wins

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2. Be Contextual (why things are the way they are)

Goal: Align with business risks and objectives to inform decisions

People

- Security works across a few verticals
- Work collaboratively to understand context to meet shared objective

Process

- There is no such thing as one size fits all
- Too many choices can be overwhelming and cause indecision / inaction
- Understand and align with business context, risk appetite, objectives, goals, and priorities

Technology

- Understand technical environment setup and existing controls or tooling: why they are the way they are
- What is the best solution for your very unique environment for the available budget, at a strategic time

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3. Templatise Everything (also Standardise)

Goal: To de-hassle, reduce room for human error, and create sustainable scalable processes

People

- Remove opportunity for human error
- Reduce likelihood of compromise
- Make everyone's jobs easier

Process

- Align with “minimum viable security” / governing standards / benchmarks
- Test all templates / code / containers prior to use
- If it cannot be templatised it cannot be scaled, should you modify your approach

Technology

- Create a template for everything, where possible automate
- Use <everything> as code to create “Golden Images”
- Review, test and select the correct tooling as standard from the beginning

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4. Shift Left and Rinse and Repeat

Goal: Move security to the start of the DevOps / Product Lifecycle

People

- Work collaboratively from the start

Process

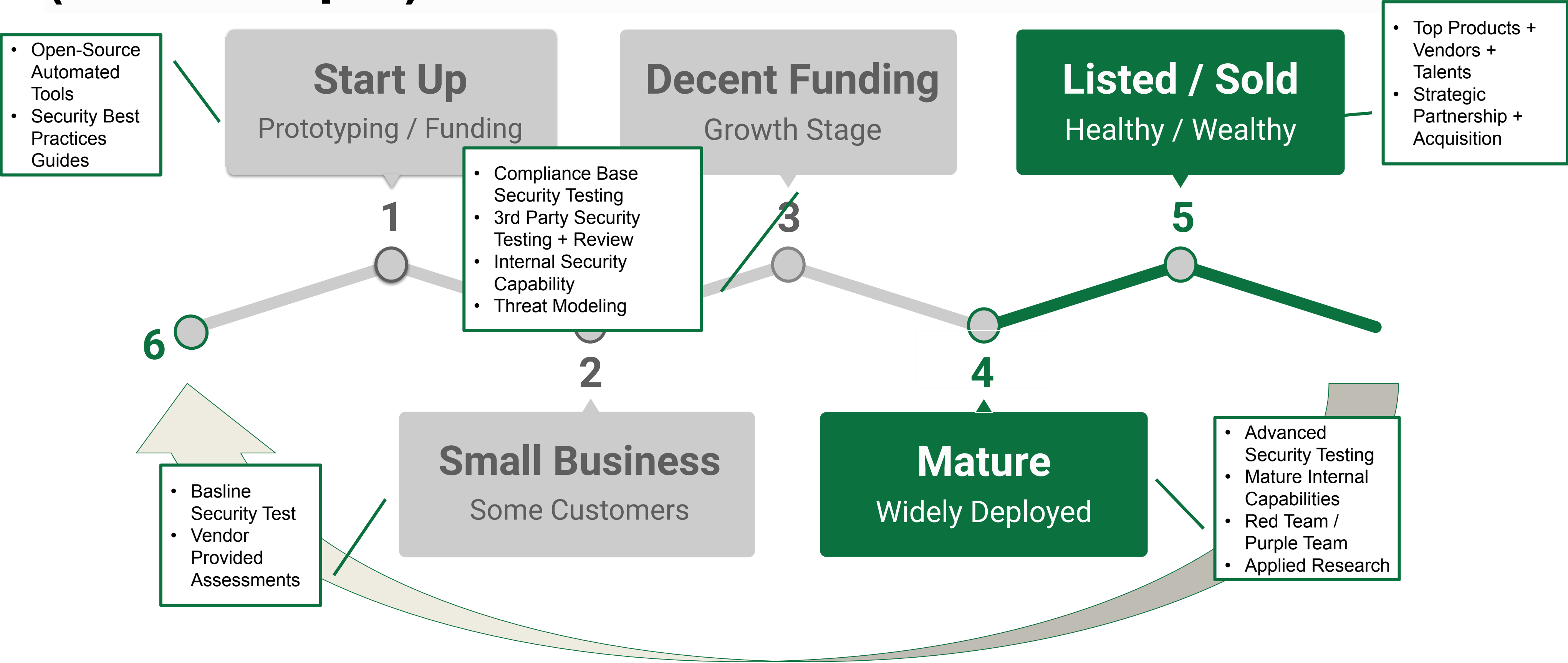
- Perform collaborative threat modeling
- Let your threat inform your decisions from the start

Technology

- Review and test everything, code, tools, standards, before introducing it into an existing / new environment

- Evaluate the security implementation, improve, repeat everywhere in product development lifecycle, organisational standards and processes where relevant

Vulnerability Management + Security Assurance (An Example)



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5. Cultivate Shared Responsibility

Goal: Have an inclusive, collaborative culture that encourages ownership

People

- Cultivate a shared responsibility culture where everyone is responsible for securing their own people, process and technology
- Promote a culture of collaboration - how can I help you achieve our shared goals

Process

- Include all relevant stakeholders in decision making, do not include people retrospectively;
- Encourage ownership of decision and accountability with formal authorisation processes

Technology

- Make use of collaborative platforms with Identity Access Management best practices to encourage accountability, traceability and ownership

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6. Monitor and Log (Everyone on the Same Page)

Goal: Traceability, visibility and accountability

People

- Foster a culture of shared responsibility where everyone is held accountable for their area of ownership and encourage collaboration

Process

- Have a centralise dashboard to quickly visualise to encourage transparency, track accountability and encourage sharing of resources

Technology

- Monitor and log all key processes, tasks and controls
- Automated, timely and up-to-date communication

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7. Right People in the Right Seats

Goal: Ensure that the right skill sets are strategically available at the right places
This is how you will achieve the first 6 habits

People

- Look internally, self evaluate and determine “success factors”
- Identify strengths and gaps
- Ensure that skill sets are allocated strategically and efficiently

Process

- Ensure that you have the right skill sets for the correct tasks, and provide regular and periodical training; Hiring, retaining, promoting and reallocating of people where required
- Identify strategic long term partnership to support you on your journey

Contact

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