





WHAT IS CONTINUUM?

CONTINUUM = DRIVING CONTINUOUS IMPROVEMENT

- Understand and improve our current practices and capabilities
- Increase ability to respond to changing business conditions
- Better leverage innovation



WHAT IS CONTINUUM?

Assessing team
or organizational
capabilities in
responding
to change

Planning and
executing
improvements
to existing
practices



**CONTINUUM HELPS
YOU LEVEL UP!**



A FEW POINTS TO CONSIDER

Continuum provides a platform for a team assessment not an individual assessment.

Continuum should not be used as a tool to compare teams but rather to encourage continuous improvement.

The focus should be on improving the teams current competencies and recognising the steps needed to “level up” rather than focusing on the mature end state.

Competencies can be mastered individually or as a group.

Continuum should not be used as a performance measurement tool.



HOW DOES IT WORK?

SKILL DIMENSIONS

INDIVIDUALS AND INTERACTIONS



TEAMING



FEATURE
TEAMING

CUSTOMER COLLABORATION



STRATEGY
ALIGNMENT



SOFTWARE
DESIGN



RELEASE
MANAGEMENT

RESPONDING TO CHANGE



CONTINUOUS
INTEGRATION



PLANNING AND
REQUIREMENT
MANAGEMENT



RISK AND ISSUE
MANAGEMENT

WORKING SOFTWARE



ENVIRONMENTS



QUALITY
ASSURANCE



CODING
PRACTICES



INCIDENT
MANAGEMENT



TEAMING

INDIVIDUALS AND INTERACTIONS

Teaming:

A group of craftsmen that work together to achieve a specific goal.

The goal:

To achieve a high level of accountability, collaboration, autonomy and transparency as a team effort.

Examples:

Guilds, CoP, Col, team of designers.





FEATURE TEAMING

INDIVIDUALS AND INTERACTIONS

Feature Teaming:

A self-organised, cross-functional team which consists of individuals involved in the end to end delivery of a product or a service.



The goal:

To develop into a team responsible for all aspects of a feature delivery, from idea stage to production and support.

Example:

Online Share Trading team, Investment and wealth team.



STRATEGY ALIGNMENT

CUSTOMER COLLABORATION

Strategy Alignment:

The ability to align the decision making with the organisation's business and technical objectives.



The goal:

To advance to a state where the team can actively participate in strategy planning - for Business and IT

Example:

Strategy is used to push back on initiatives that are not prioritised.



SOFTWARE DESIGN

CUSTOMER COLLABORATION

Software Design:

The overall design of a system or the technical decisions involved while creating the system.



The goal:

Leveling up towards the JIT (just in time) design culture with full traceability between requirements and design.

Example:

Design done JIT by the team, designer part of the team.

Release Management:

Planning, managing and governing releases of software.

The goal:

Leveling up to the state where releases can be deployed at any time and are fully automated.

Example:

The team controls the release.





CONTINUOUS INTEGRATION

RESPONDING TO CHANGE

Continuous Integration:

A software development practice whereby each team member frequently integrates their work (at least daily), leading to multiple integrations per day. Each integration is verified by an automated build (including testing) to detect integration errors as quickly as possible. This dimension includes source control and configuration management.



The goal:

To advance to a state where the build pipeline extends directly into production and where the decision to release to the customer is made by Business (just a push of a button).

Example:

Test driven development and test driven infrastructure practices adopted by the team. Automation of build, test, deployment, change, configuration and release processes are in place.

Planning and Requirements Management:

The breakdown of work, work prioritisation, estimation techniques, iterative planning and effective management of requirements from definition, through traceability, to delivery.



The goal:

To advance to the state where the team is defining requirements JIT, linked to the objective outcomes and prioritised by business value.

Example:

The team is able to respond to changing requirements without any issues.



RISK AND ISSUE MANAGEMENT

RESPONDING TO CHANGE

Risk and Issue Management:

The process of identifying, assessing, prioritizing and resolving risks and issues.



The goal:

Leveling up to a state where risk management is used to identify potential opportunities.

Example:

Measure's are in place to demonstrate the effectiveness of risk management.



ENVIRONMENTS

WORKING
SOFTWARE

Environments:

Environments available and easily configurable with accurate and consistent data across platforms. It encompasses all IT environments (from development to production) and data management.

The goal:

To advance to a state where the environments are an integral part of the code build pipeline and managed by the team.

Example:

Provisioning of environments is fully automated. Data and environments are treated as code.



Quality Assurance:

The Quality assurance dimension ensures that practices and processes are of a high standard. It's about validation, are we building the right system, and verification, are we building the system right.

The goal:

Create a platform where Tests drive release decisions and the entire team owns quality.

Example:

Tests are written upfront, code is created to pass the tests. There is high level of test automation and code coverage and anyone can execute the tests.





CODING PRACTICES

WORKING SOFTWARE

Coding Practices:

A set of practices aimed at improving the quality of software.

The goal:

To reach a state where coding standards and practices are regularly reviewed and updated through continuous improvement.

Example:

Constant maintenance and grooming of the code base.
Minimized technical debt.





INCIDENT MANAGEMENT

WORKING
SOFTWARE

Incident Management:

Restoring the service as quickly as possible and detecting the underlying cause of an incident to resolve and prevent it from occurring in future.



The goal:

Leveling up to state where the team is able to use normal process to do emergency changes.

Example:

Accept that failure is inevitable, that changes will break things, and that the question becomes “how soon we can restore service?”.



LEVELS

1

TRAVELLER

2

ARTISAN

3

EXPERT

4

PROFESSIONAL

5

MASTER





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LEVELS

The team commences the journey of continuous improvement as a **Traveller**.



At the **Traveller** level we will generally have unrepeatable and poorly controlled processes and reactive behaviour.



Artisan level demonstrates the first step of improvement, obtaining initial craftsmanship skills to enable the journey forward.



Expert level expresses achieving a mature level of continuous delivery practices where you benefit from the larger effects.



Professional level suggests a level of proficiency where metrics and trends are tracked and acted on. It includes practices that will bring substantial value and effect to a higher effort.



Master level = “continuous improvement”

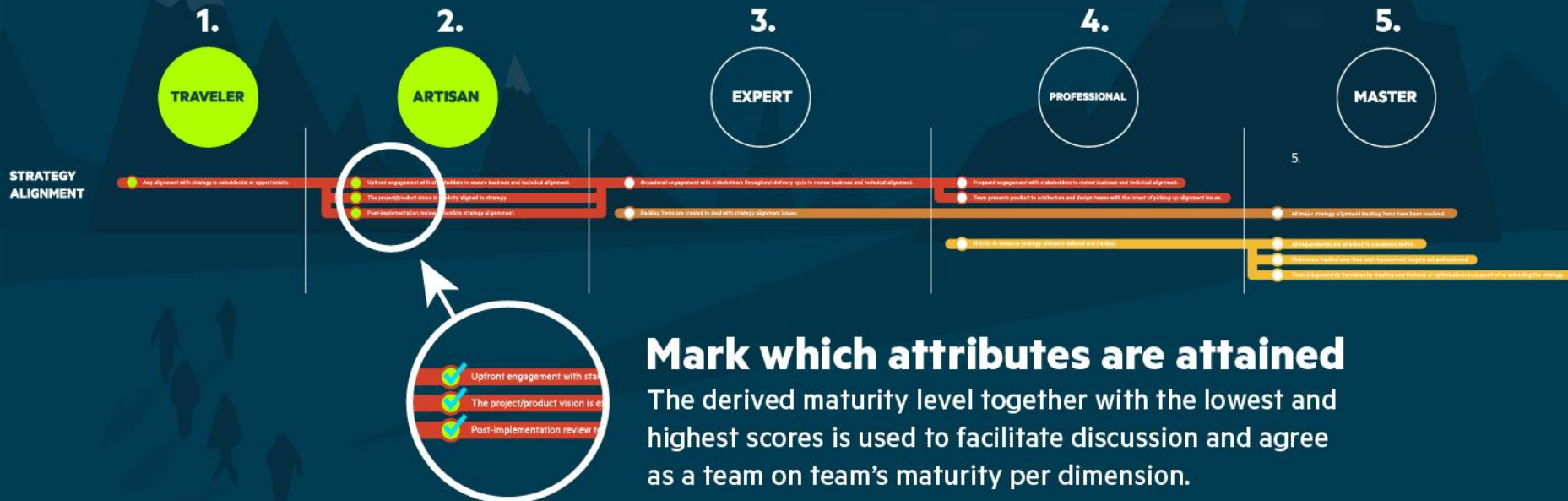


1.

Assess current practice of all skills

Each member assesses the current performance of the team across all dimensions.
The overall maturity of each dimension is derived from the assessments.

PLOT ON SKILLS TREE





HOW DOES IT WORK?

2.

Team decides on
priority skills to level up

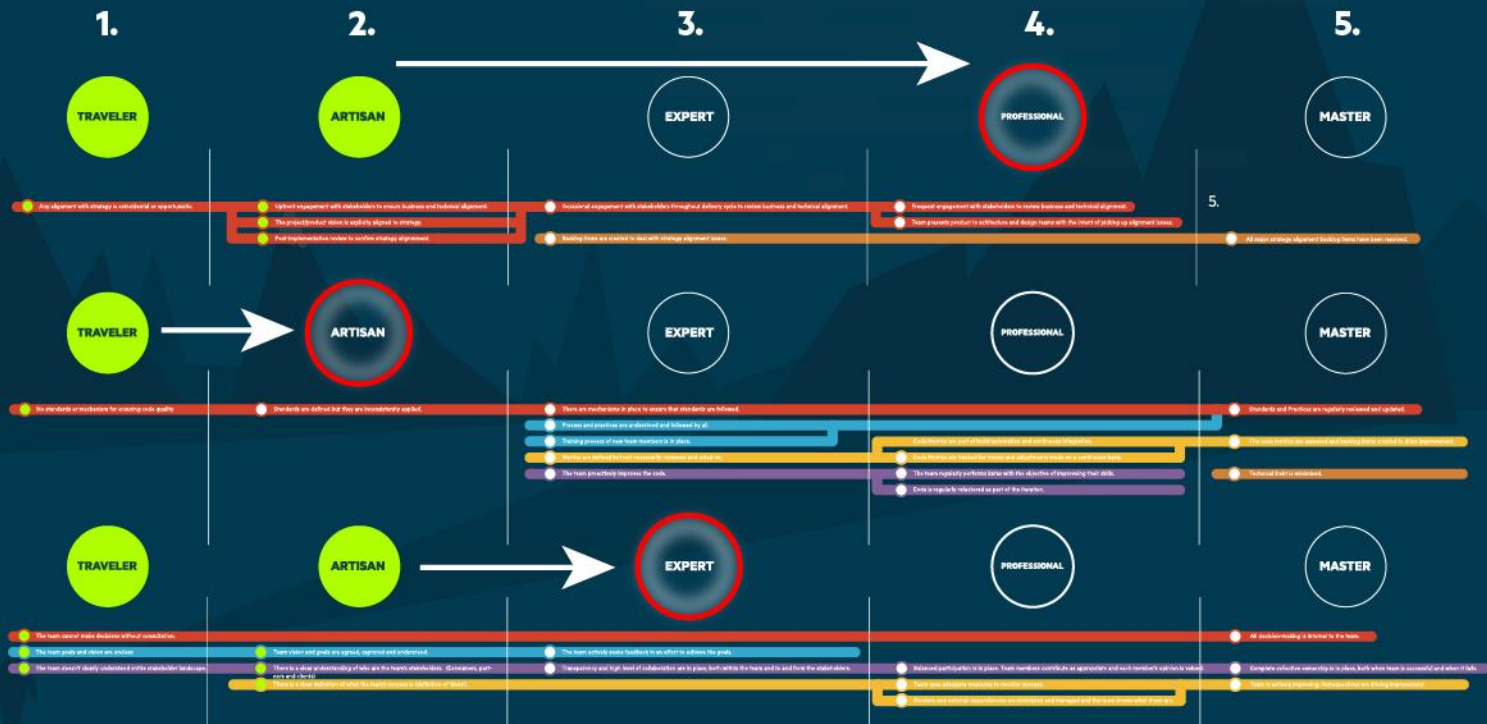




HOW DOES IT WORK?

3.

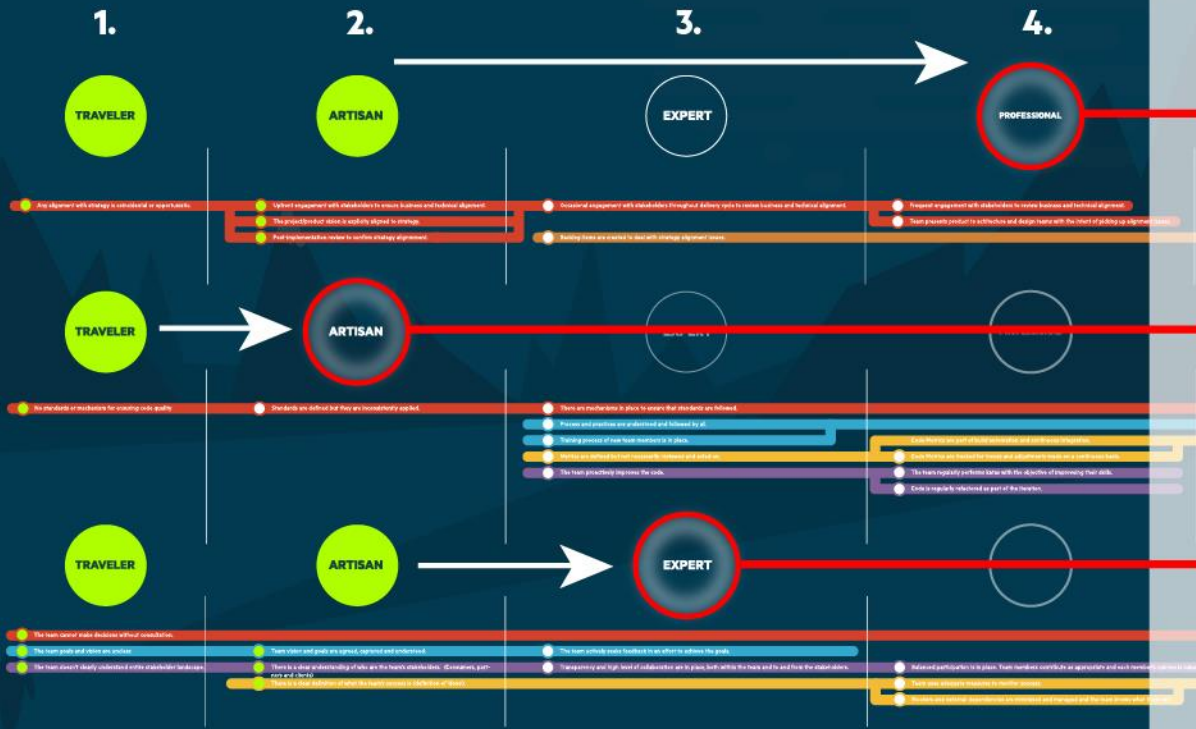
Agree on target state for each skill



HOW DOES IT WORK?

4.

Prepare a time bound action plan to reach that level



Timeframe

- action
- action
- action

Timeframe

- action
- action
- action

Timeframe

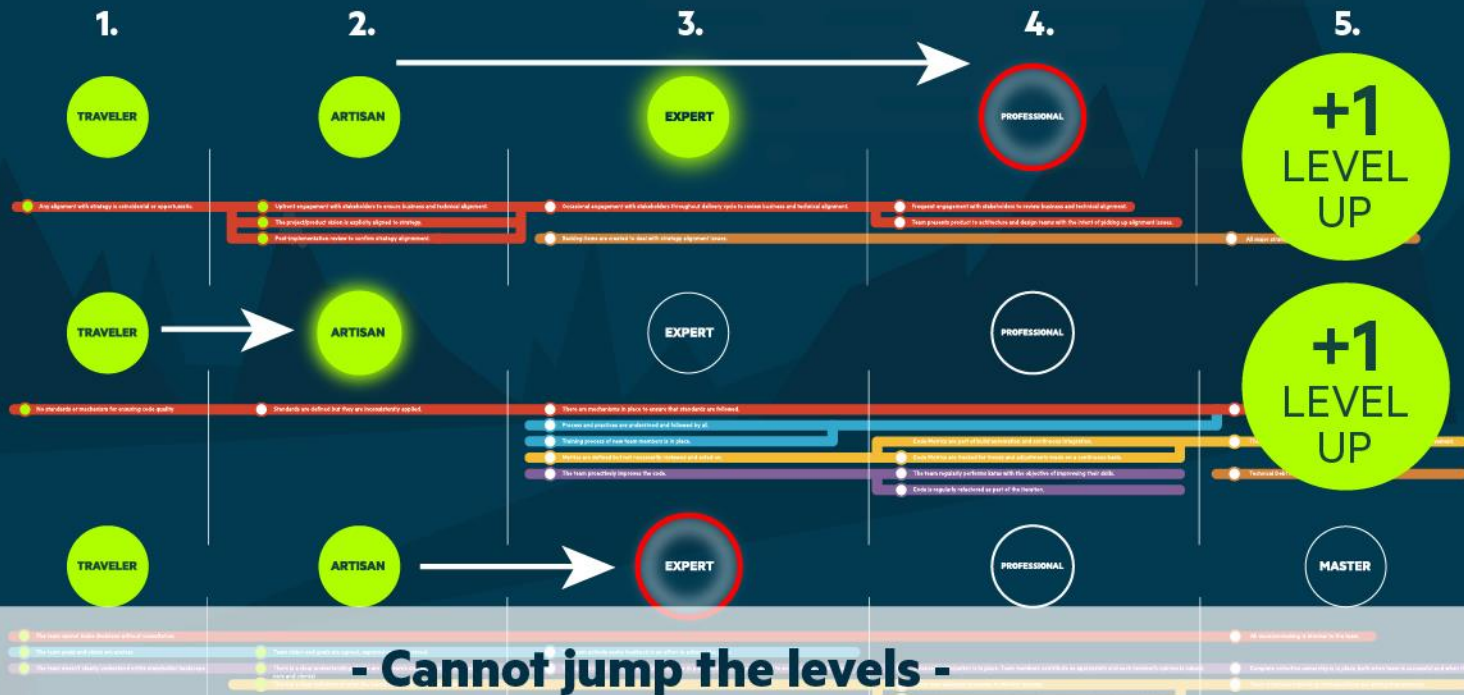
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- action
- action



HOW DOES IT WORK?

4.

Assess on all skills and progress towards states periodically



- Cannot jump the levels -
Must have attained all attributes to level up in a skill



WHAT YOU GET

GRAND
MASTER



STAY A LEVEL 5 ENGINEERING TEAM
BY CONTINUOUSLY IMPROVING YOUR SKILLS