

Building an Academy

The .Stat Academy Experience

Prepared and presented by Jonathan Challener, OECD



BETA

.STAT
ACADEMY



SIS-CC

Statistical Information System
Collaboration Community

THE SIS-CC



Members



UK Data Service



Partners



SIS-CC (“the Community”) is a **reference open source community for official statistics**, focusing on product excellence and **delivering concrete solutions to common problems** through co-investment and co-innovation.

INGREDIENTS FOR A COMMUNITY MODEL

Achieving common goals

Stretching the value

Consolidating the foundations



START BUILDING KNOWLEDGE TODAY

Free online training and resources to support capacity building in the .Stat Suite for data toolers and data producers

Discover .Stat Academy courses...



Students from across the globe.



More than 100 resources.

.STAT ACADEMY – GOAL

Provide Free online training and resources to support capacity building in the .Stat Suite and SDMX **for data producers and technologists.**

Build a community of users, adopters, and contributors.

Increase knowledge in .Stat suite usage, installation, and development thus **reduce the volume of support requests.**



.STAT ACADEMY – PLATFORM

Built on WordPress with LearnPress plugin(s) providing a common and well established technical stack at low cost.



Easy to use tools (WYSIWYG), for contributors to create courses in a seamless flow.



Intuitive and personalised experience providing a learning environment to collaborate on a modern, easy to use platform.



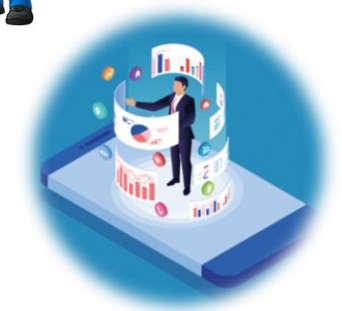
.STAT ACADEMY – CONTENT



Learning paths that support the training needs of Data Producers and Data Toolers.



Content designed to make learners experience engaging by solving practical problems with our quiz-based activities and interactive exercises



Learning levels designed to build your knowledge and skills over time, geared towards your goal, from foundations or becoming an expert.



Three content streams covering learning, project (members) showcases, and ideation sessions.

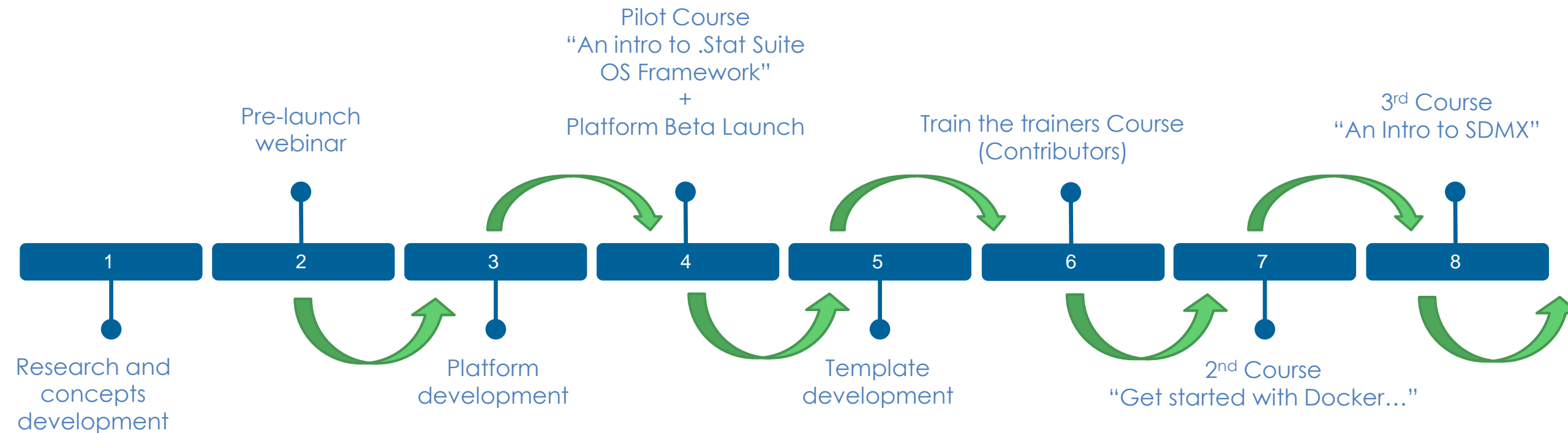


THE BUILDING BLOCKS

PEDAGOGICAL APPROACH

1. Engage experts (e-learning)
2. Learn from others (similar communities)
3. Choose a learning method (Blooms)
4. Identify and group the main target users and secondary users (Personas)
5. Describe they needs and goals
6. Define the learning paths
7. Learn by doing (pilot)
8. Train the trainers (experts)
9. Make it easy to contribute (templates)
10. Prioritise your content areas (listen to your users)

LEARN BY DOING APPROACH



GCATI

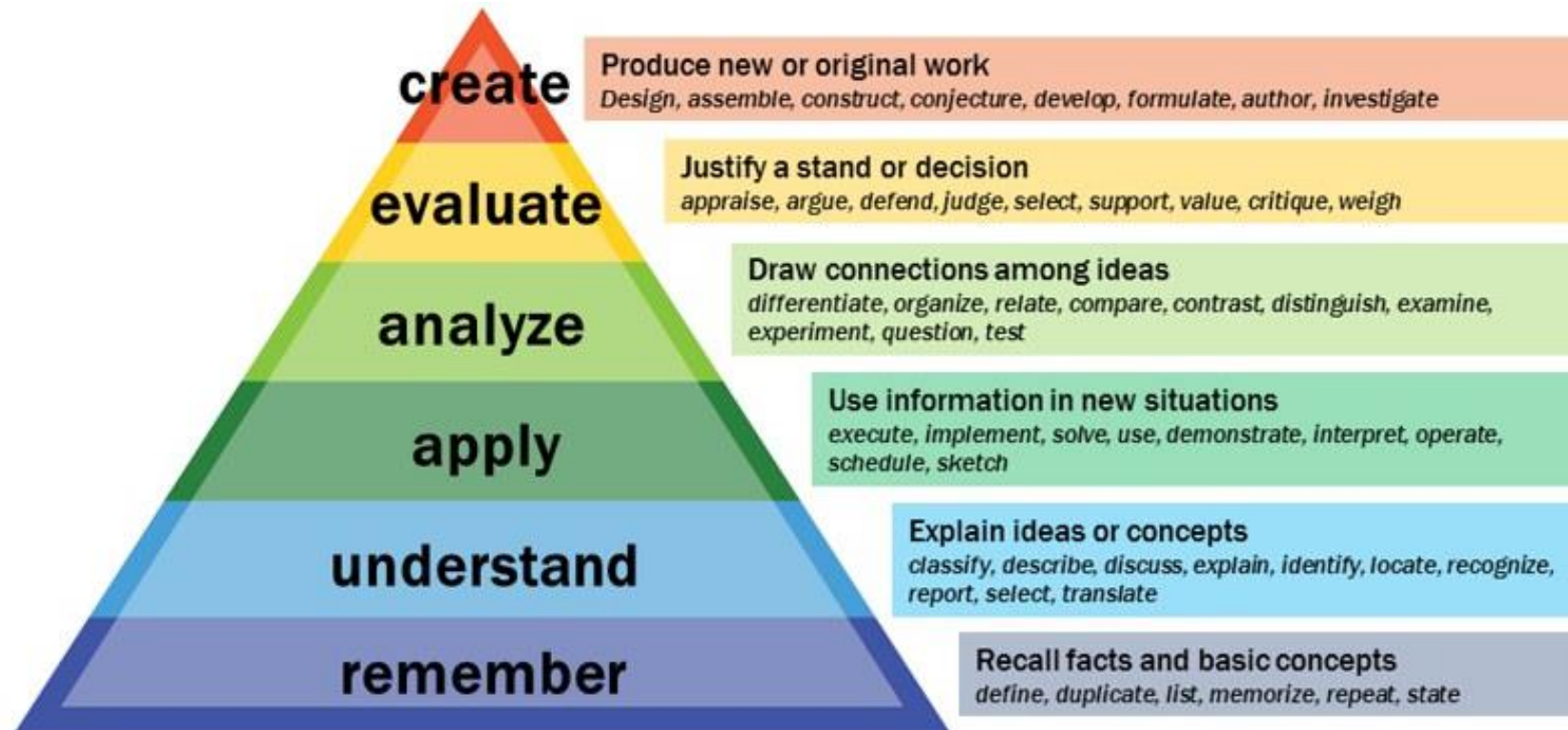
Certification. Accreditation. Training.

Engaged a UK based non-profit GCATI, **specialised in global training and certification** to help define target users (personas), content strategy and processes, and start to build a Body of Knowledge (BoK).

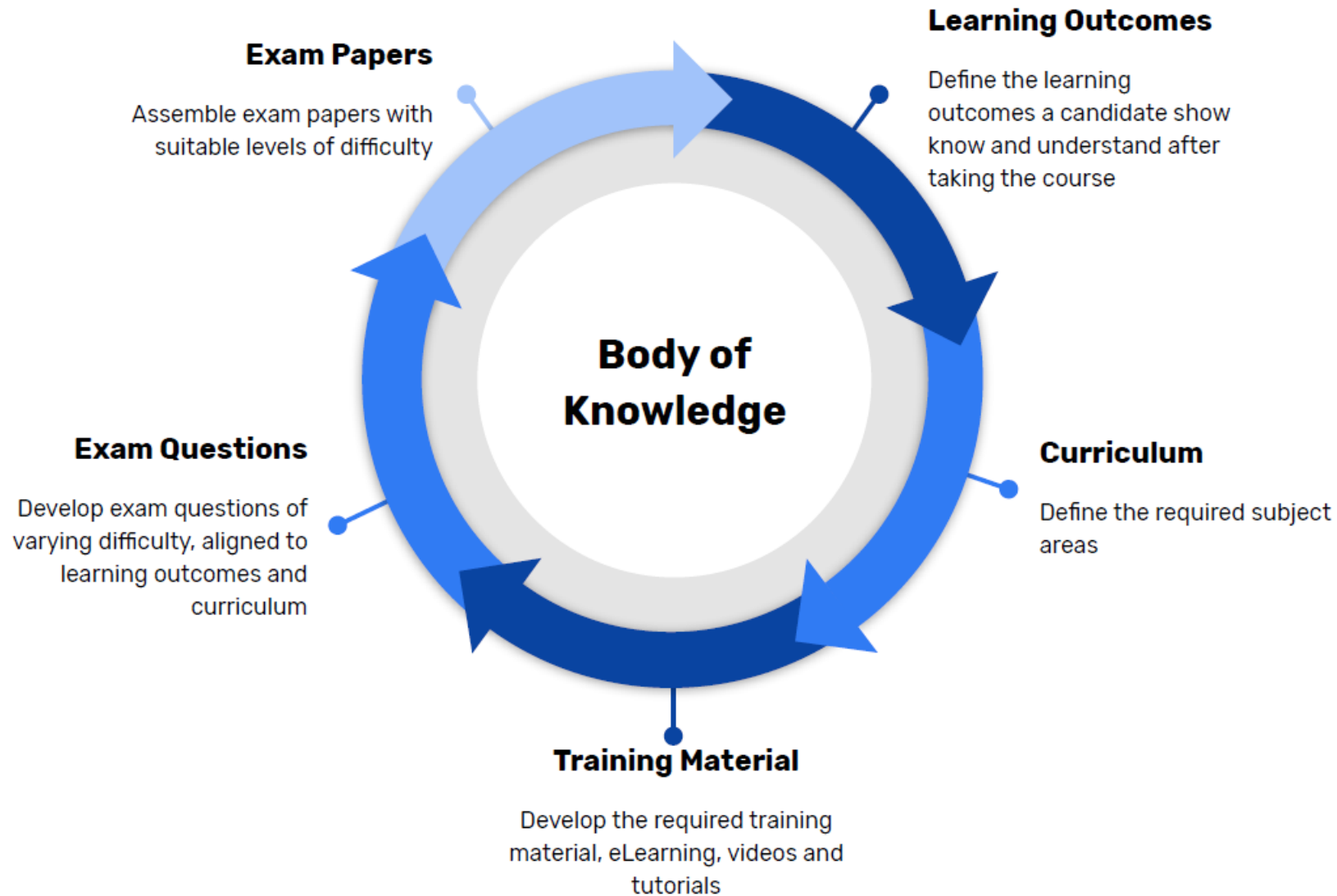


Market consultation with partner (EI Design) selected assisting in the coaching of content creators / trainers **(later from within all SIS-CC member organisations)**, guidelines for content creators, and support the official launch, content creation, **(and, later, development of certification path)**.

THE (BLOOMS) TAXONOMY



CREATING A BODY OF KNOWLEDGE



THE PERSONAS

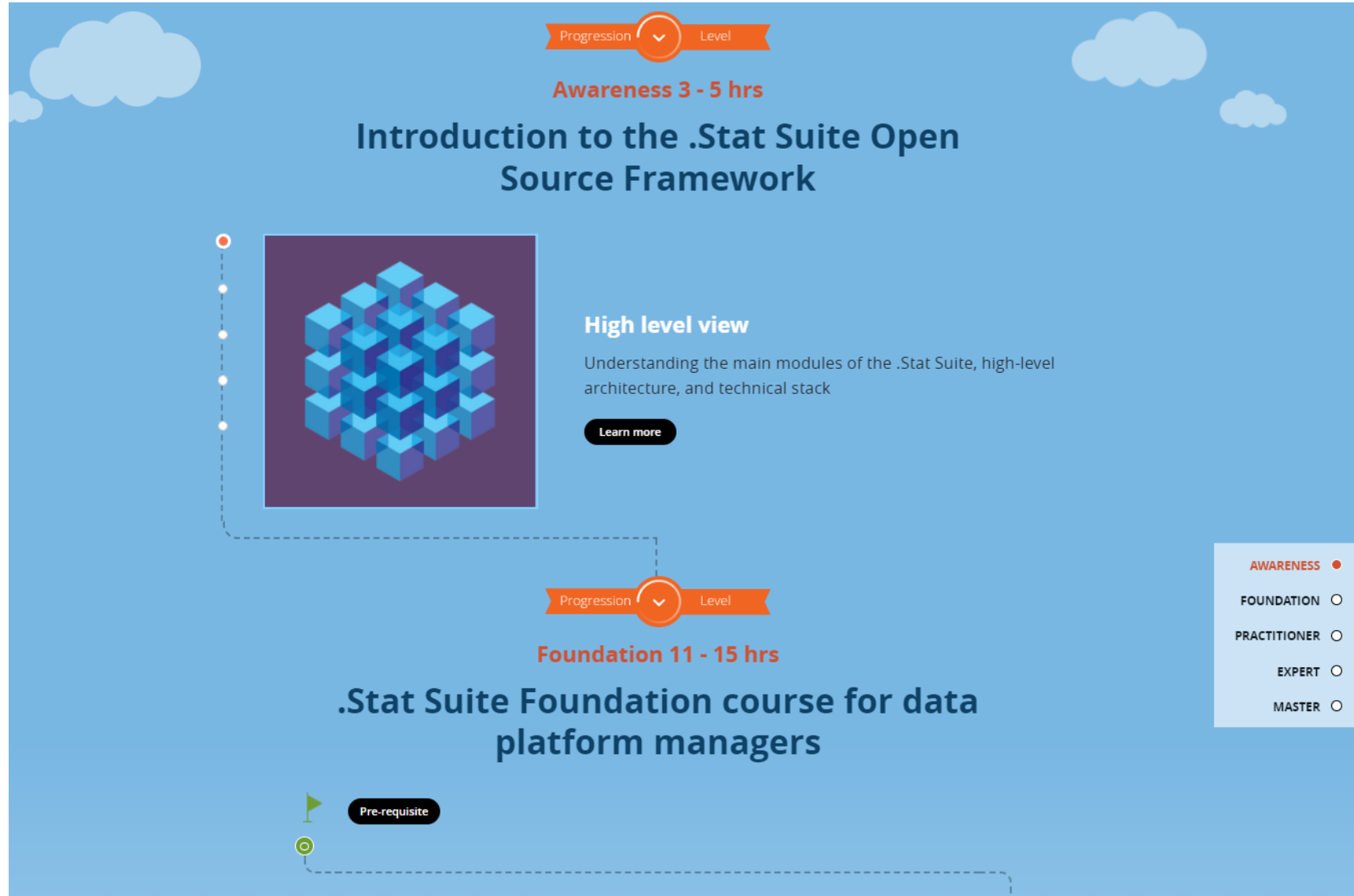
Data Producers	Data Toolers
<p>Methodology adviser Statistical assistant Statistician (manager of regular data cycle) Reporter (Data Producer)</p> <p>Take data from data producer Support producer on use of different data tools Collecting / reporting data to other structures Data modelling/architect role</p>	<p>.Stat Platform Manager Database Manager IT Infrastructure Manager Developer/Contributor</p> <p>Install application and assist data producers to install application</p>
<p>.Stat Platform Support</p>	

THE LEARNING LEVELS

- **Awareness** – an introduction to .Stat Suite what is it? What are the core principles? Why is it needed? What techniques are used? Why is it valuable to business and society?
- **Foundation** – for those who need to know and understand the basics of the .Stat Suite either with a view to becoming a Practitioner or with a need to work effectively with Practitioners.
- **Practitioner** – for those who need to apply .Stat Suite application to work effectively where statistical processes, systems and trained people are deployed in the organisation.
- **Expert** – for those who need to develop and validate their capability to compose, create, evaluate and prioritise statistics using the .Stat Suite.
- **Master** – for those who have composed and created new working practices and now seek the capability or recognition that they can teach, coach and contribute to the development of the practice.

THE LEARNING ARCHITECTURE

Course	Pre-requisites	Module Structure Breakdown	Learning Objectives (modules)	Expected effort (hrs)	Asset Format	Progression Level	Notes
.Stat Suite Academy Learning Architecture							
Persona group	Data Tooler						
Sub roles	.Stat Platform Manager, Database Manager, IT Infrastructure Manager, Developer/Contributor						
Audience persona: Data Tooler							
Introduction to the .Stat Suite Open Source Framework	none	Architecture overview - diagram and brief explanation	Understanding the main modules of the .Stat Suite, high-level architecture, and technical stack	0.30	iPDF, Interactive Infographics, PDF Infographics + Micro Videos		
		Overview of the .Stat Suite JavaScript Services: - Data Explorer app - Share service - Share-Viewer App - Search service - Proxy Service - Config Service - Data Data Lifecycle Manager app	complete the installation of the .Stat Suite using docker-compose	1.00		Understand the different services and split .Net and Javascript, and which services communicate between each other and the purpose of their communication	
		Overview of the .Stat Suite .NET Core Services: - Transfer service - SDMX service - Authorisation service	Understanding each service and their purpose	0.45			
		.Stat DevSecOps implementation: - Git, Gitlab, Dockerhub, Npm, Tests - Process, Flow, Mapping	Understanding the .Stat Suite delivery mechanisms (CI and CD)	0.45			
		Dependencies and semantic versioning	Understanding the different dependencies and versioning practice for .Stat Suite core Services	0.20			
				3-5			Awareness
Audience Persona: Data Tooler (data platform manager)							
.Stat Suite Foundation course for data platform managers	Introduction to the .Stat Suite Open Source Framework	Introduction to .Stat Suite	Understanding the architecture for the .Stat Suite	0.15	Quiz (prerequisites)		
		Deployment Strategy: - .Stat as Container (a) - .Stat as Source code (b) - Cloud, premise, hybrid	Understanding the .Stat Suite deployment approaches and options	0.30			
		Infrastructure requirements	Understanding the minimum (suggested) infrastructure requirements	0.15			
		.Stat Suite Tenant model - Tenant model definition					




The interface features a blue background with white clouds. At the top, there is a navigation bar with 'Progression' and 'Level' dropdown menus. The main content is organized into two primary sections. The first section, titled 'Introduction to the .Stat Suite Open Source Framework', includes a 'High level view' card with a 3D cube graphic and a 'Learn more' button. The second section, titled '.Stat Suite Foundation course for data platform managers', includes a 'Pre-requisite' icon. On the right side, a vertical 'PROGRESSION LEVEL' sidebar shows five levels: AWARENESS (selected with a red dot), FOUNDATION, PRACTITIONER, EXPERT, and MASTER, each with a corresponding radio button.

Progression Level

Awareness 3 - 5 hrs

Introduction to the .Stat Suite Open Source Framework



High level view

Understanding the main modules of the .Stat Suite, high-level architecture, and technical stack

[Learn more](#)

Progression Level

Foundation 11 - 15 hrs

.Stat Suite Foundation course for data platform managers

[Pre-requisite](#)

PROGRESSION LEVEL

- AWARENESS**
- FOUNDATION
- PRACTITIONER
- EXPERT
- MASTER

LEARN BY DOING – THE PILOT COURSE

Overview Curriculum Reviews

COURSE DESCRIPTION

The course, **Introduction to the .Stat Suite Open Source Framework**, is designed for Data Toolers (.Stat Platform Manager, Database Manager, IT Infrastructure Manager, Developer...) to provide an overview of the .Stat Suite architecture, technical stack, different services, delivery mechanism, and dependencies and versioning.

LEARNING OUTCOMES

- Understanding the main modules of the .Stat Suite, high-level architecture, and technical stack.
- Understanding each of the .Stat Suite JavaScript services and their purpose.
- Understanding each of the .Stat Suite .NET Core services and their purpose.
- Understanding the .Stat Suite delivery mechanisms (Continuous Integration and Continuous Delivery).
- Understanding the different dependencies and versioning practice for .Stat Suite core Services.

CERTIFICATION

Upon completing this course you will receive a **certificate of completion**.

COURSE FEATURES

Lessons	22
Quizzes	4
Duration	3-5 hours
Skill level	Awareness
Language	English
Students	3
Certificate	Yes
Assessments	Self

ADD TO WISHLIST

Search courses content 0 of 32 items

COURSES > .STAT SUITE BASICS >

Introduction to the .Stat Suite Open Source Framework

MODULE 1: HIGH-LEVEL VIEW 0/4

After completing this module, you will be able to understand the .Stat Suite high-level architecture and technical stack.

- 1.1 High-Level Technical Architecture
- 1.2 .Stat Suite Technical Stack
- 1.1 Check Your Knowledge: .Stat Architecture
- 1.3 Summary: High-Level View

MODULE 2: JAVASCRIPT SERVICES 0/14

After completing this module, you will be able to understand each of the Javascript services and their purpose.

- 2.1 Introduction to Webapps

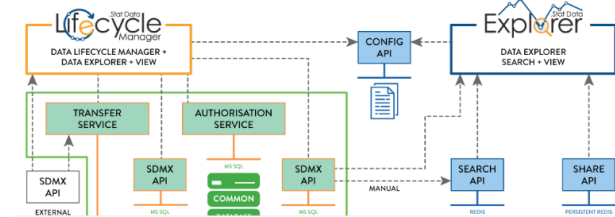
High-Level Technical Architecture

The .Stat Suite is a standard-based, componentised, open source platform for the efficient production and dissemination of high-quality statistical data. The product is based on the General Statistical Business Process Model (GSBPM) and the Statistical Data and Metadata eXchange (SDMX) standards and is driven by the Statistical Information System Collaboration Community (SIS-CC).

The .Stat Suite has **three main modules**:

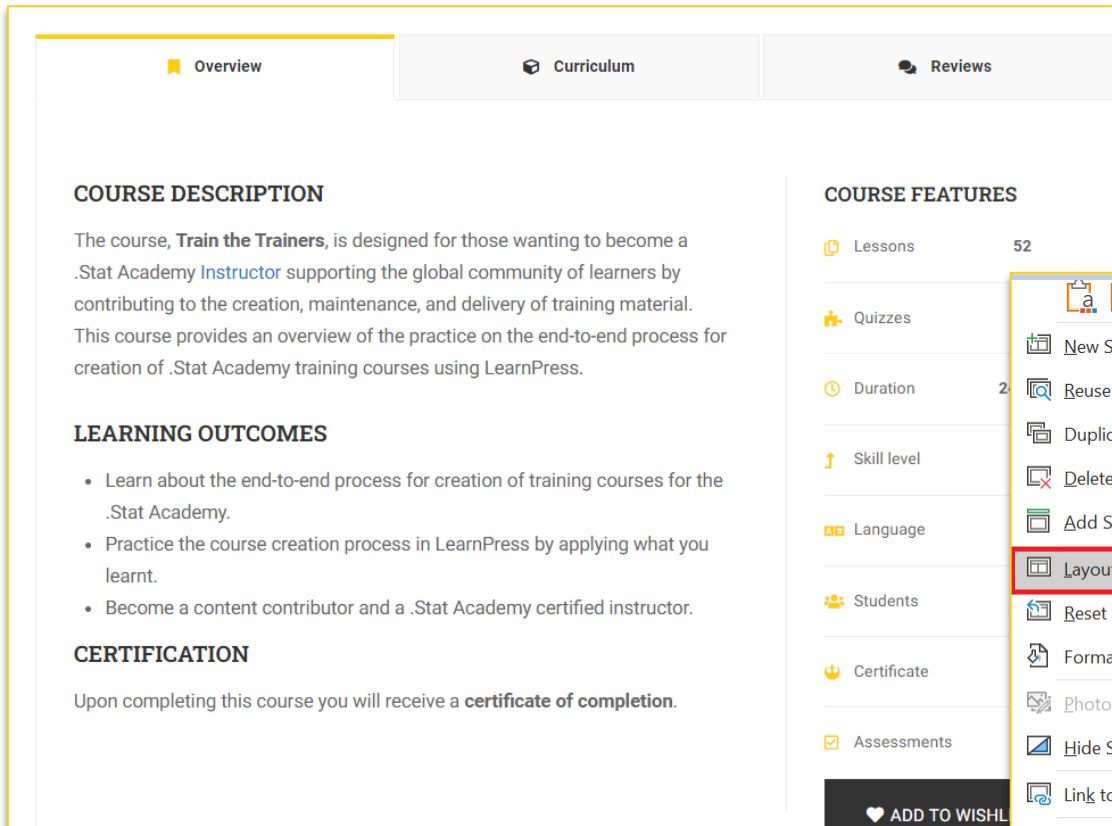
- .Stat Core
- .Stat Data Lifecycle Manager
- .Stat Data Explorer

Each main module (and their components) can be used together or separately. The diagram below shows a high-level technical architecture for the .Stat Suite:



The diagram illustrates the high-level technical architecture of the .Stat Suite. It shows the interaction between various components and services. At the top, the 'Data Lifecycle Manager' (containing 'Data Explorer' and 'View') and 'Data Explorer' (containing 'Search' and 'View') are connected to a 'CONFIG API'. Below these, there are 'TRANSFER SERVICE' and 'AUTHORISATION SERVICE'. The 'TRANSFER SERVICE' is connected to 'SDMX API' (EXTERNAL) and 'SDMX API' (MS SQL). The 'AUTHORISATION SERVICE' is connected to 'SDMX API' (MS SQL) and 'SDMX API' (COMMON). The 'CONFIG API' is connected to 'SEARCH API' and 'SHARE API'. The 'SEARCH API' is connected to 'SDMX API' (MS SQL) and 'SDMX API' (COMMON). The 'SHARE API' is connected to 'SDMX API' (MS SQL) and 'SDMX API' (COMMON). The 'SEARCH API' and 'SHARE API' are connected to 'MANUAL' and 'RESIDUAL'. The 'SEARCH API' is connected to 'RESIDUAL'. The 'SHARE API' is connected to 'RESIDUAL'. The 'SEARCH API' and 'SHARE API' are connected to 'RESIDUAL'.

Leveraging the Academy



The screenshot shows the 'Overview' tab of a course page. It includes sections for 'COURSE DESCRIPTION', 'LEARNING OUTCOMES', and 'CERTIFICATION'. The 'COURSE FEATURES' sidebar on the right lists 52 lessons, 2 quizzes, a duration of 2 hours, and other details like skill level, language, students, certificate, and assessments.

Overview Curriculum Reviews

COURSE DESCRIPTION

The course, **Train the Trainers**, is designed for those wanting to become a .Stat Academy **Instructor** supporting the global community of learners by contributing to the creation, maintenance, and delivery of training material. This course provides an overview of the practice on the end-to-end process for creation of .Stat Academy training courses using LearnPress.

LEARNING OUTCOMES

- Learn about the end-to-end process for creation of training courses for the .Stat Academy.
- Practice the course creation process in LearnPress by applying what you learnt.
- Become a content contributor and a .Stat Academy certified instructor.

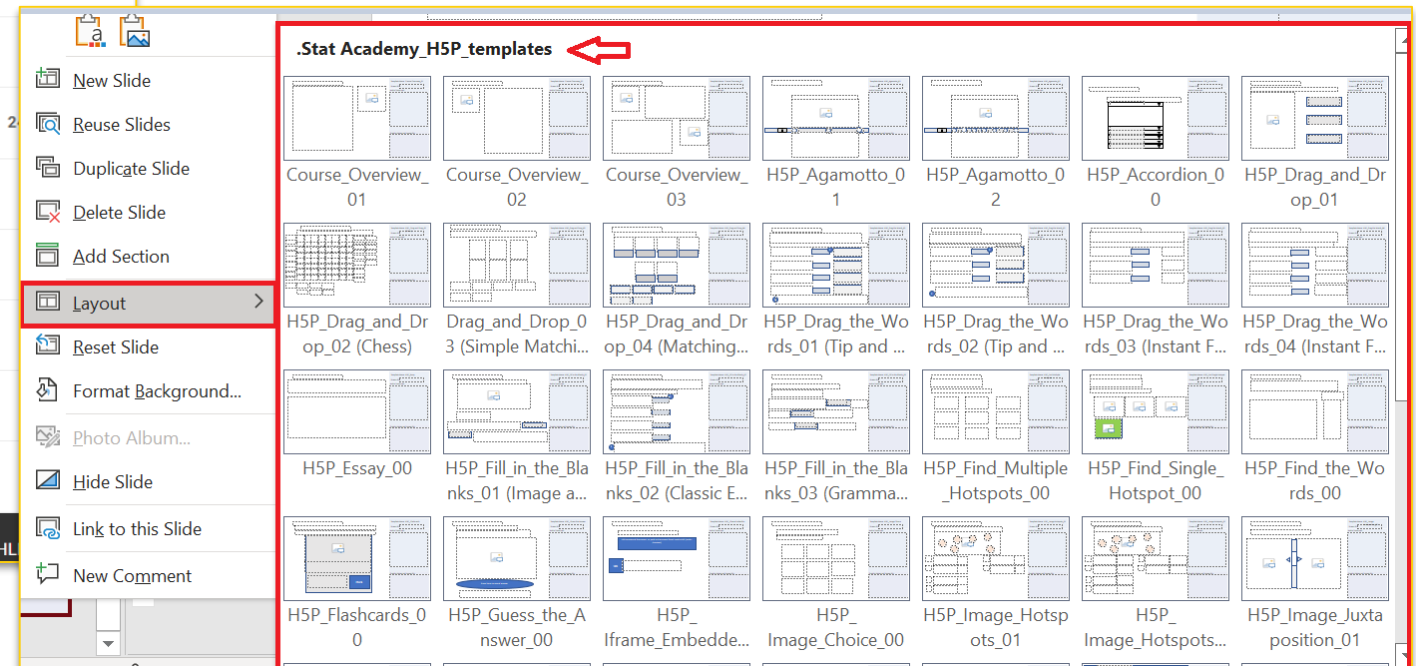
CERTIFICATION

Upon completing this course you will receive a **certificate of completion**.

Lessons 52
Quizzes 2
Duration 2
Skill level
Language
Students
Certificate
Assessments

ADD TO WISHLIST

Providing guidance and templates



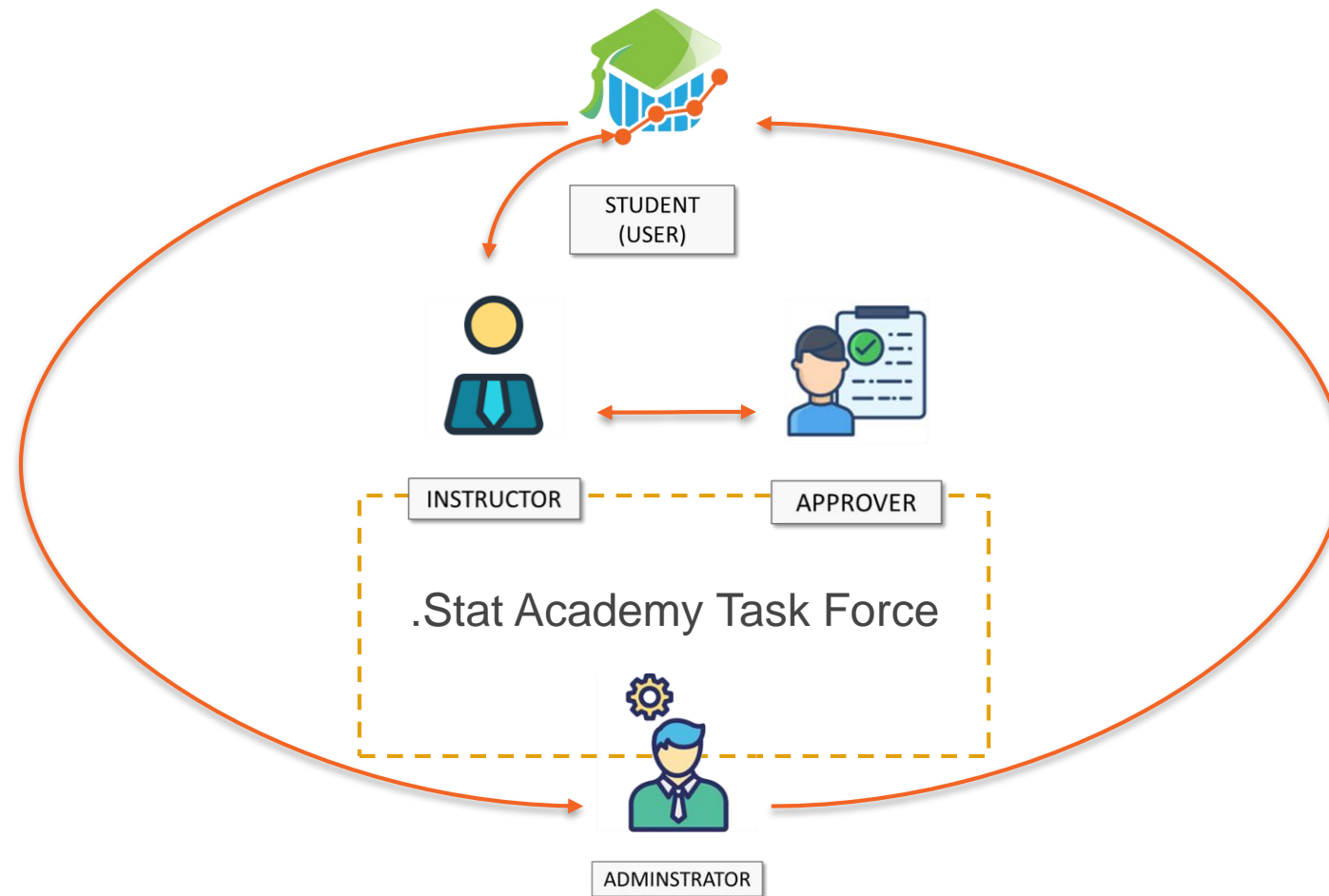
The screenshot shows the 'Layout' menu in LearnPress, which is used to select slide templates. The menu is open, and the 'Layout' option is highlighted. A red arrow points to the 'Stat Academy_H5P_templates' section, which contains a grid of various slide templates.

New Slide
Reuse Slides
Duplicate Slide
Delete Slide
Add Section
Layout
Reset Slide
Format Background...
Photo Album...
Hide Slide
Link to this Slide
New Comment

.Stat Academy_H5P_templates

Course_Overview_01	Course_Overview_02	Course_Overview_03	H5P_Agamotto_01	H5P_Agamotto_02	H5P_Accordion_00	H5P_Drag_and_Drop_01
H5P_Drag_and_Drop_02 (Chess)	Drag_and_Drop_03 (Simple Matchi...	H5P_Drag_and_Drop_04 (Matching...	H5P_Drag_the_Words_01 (Tip and ...	H5P_Drag_the_Words_02 (Tip and ...	H5P_Drag_the_Words_03 (Instant F...	H5P_Drag_the_Words_04 (Instant F...
H5P_Essay_00	H5P_Fill_in_the_Blanks_01 (Image a...	H5P_Fill_in_the_Blanks_02 (Classic E...	H5P_Fill_in_the_Blanks_03 (Gramma...	H5P_Find_Multiple_Hotspots_00	H5P_Find_Single_Hotspot_00	H5P_Find_the_Words_00
H5P_Flashcards_00	H5P_Guess_the_Answer_00	H5P_Iframe_Embedde...	H5P_Image_Choice_00	H5P_Image_Hotspots_01	H5P_Image_Hotspots...	H5P_Image_Juxtaposition_01

THE FEEDBACK LOOP



.STAT ACADEMY AS A REUSABLE PRODUCT

Content – reuse of content from existing sources but also reusable by others e.g. SDMX.

Methodology – a solid framework and approach that can be replicated.

Platform – built from common components highly configurable to meet different contexts.



THANK YOU



BETA
STAT
ACADEMY

siscc.org
academy.siscc.org
gitlab.com/sis-cc/
[@sisccommunity](https://twitter.com/sisccommunity)
contact@siscc.org



SIS-CC

Statistical Information System
Collaboration Community