

Forecast methodology: assessment of current and future needs in Additive Manufacturing



Set of Kits to be deployed by the European AM Observatory



This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



Forecast methodology: assessment of current and future needs in Additive Manufacturing

Set of Kits to be deployed by the European AM Observatory



Skills needs identification

- Surveys and Interviews Real Case Scenarios (immediate needs)
- Short term Scenarios (future needs)
- Foresight Scenarios (future needs)
 - ESCO and Skills Intelligence

Feedback on training

- Tracking students, future employers and jobseekers
- Collecting feedback on the IAMQS qualifications and training modules

Needs validation, review and development of training guidelines

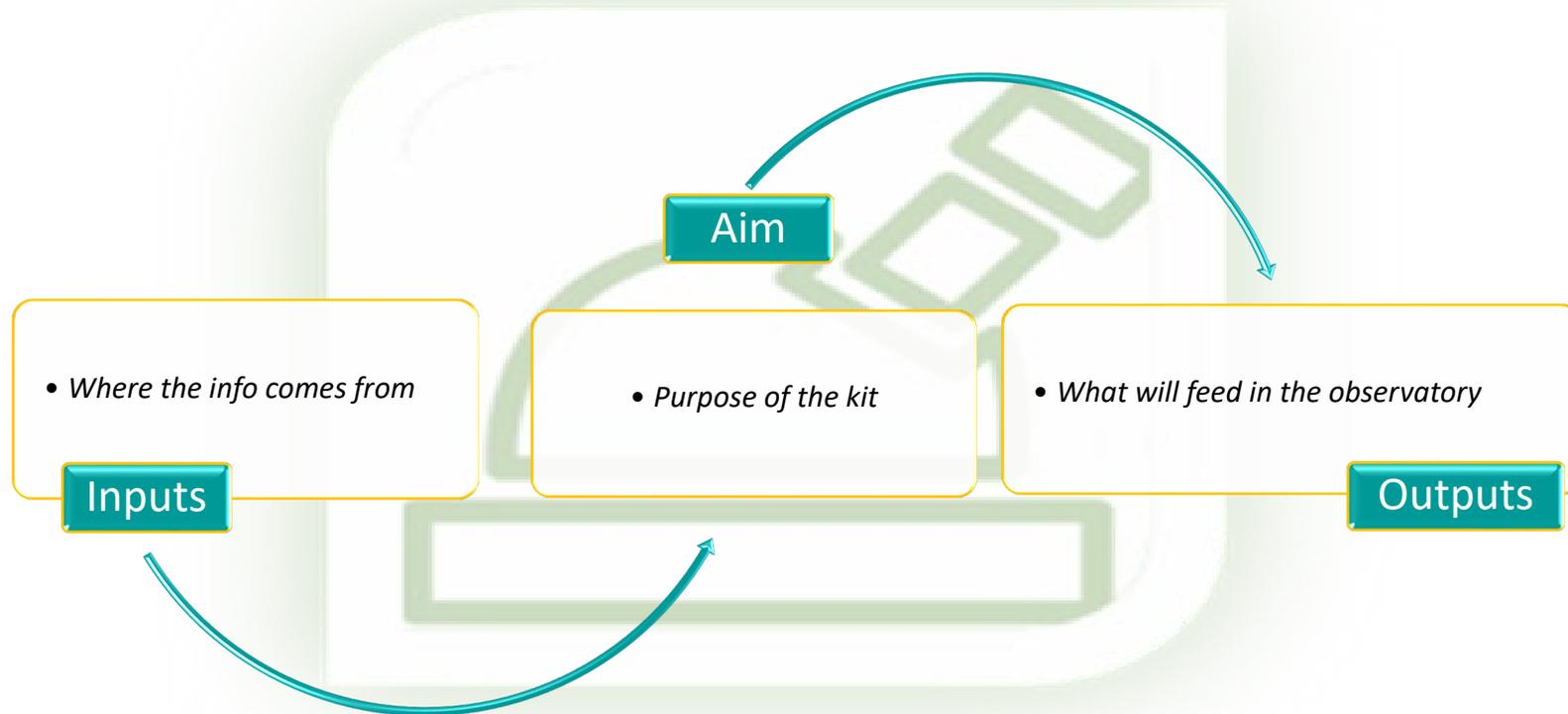
- Workshops and working sessions

KITs FLOWCHART TEMPLATE

TIMELINE

Occurrence in time

IN EVERY KIT



Tools

- Which tools are used and needed?
- Surveys, world cafes, etc it varies from kit to kit

Target

- To whom ?
- Who are the stakeholders engaged

INDICATOR/LEVEL OF IMPACT

Linked with project KPI

D2.1

Survey's and Interview's kit

[Check the Full Kit](#) 

Occurrence

Every year

Aim

- Data gathered from desk research
- Expertise

Inputs

- Identify example of questions to be applied for each scenario (real case, short term and foresight) and their purpose;

- Surveys for 3 scenarios for all target groups
- Interview for 3 scenarios for all target groups

Outputs

Tools

- How to develop surveys and interviews
- Online surveys

Target

- Other sectors aiming to undertake skills forecast through surveys and interviews
- Members of the AM Observatory

Occurrence

Every 1 year

Aim

- Literature review and job offers;
- Previous background and answers to surveys;
- Analysis of the contents coming from Interviews and Surveys applied at current needs (less than 1 year)

Inputs

- Identify the immediate skills to be addressed

- Review, update and/or development of AM Qualifications / Units of Learning Outcomes
- Data on AM skills needs and up and reskilling existing Professionals

Outputs

Tools

- Surveys
- Interviews

Target

- Industry/employers representatives
- Training centers
- AM workers /professionals
- Etc.....

Occurrence

Every 3 years

- Literature review and job offers;
- Previous background and answers to surveys;
- Analysis of the contents coming from Interviews and Surveys applied at short term (3 years)

Inputs

Aim

- Identify the short-term skills shortage to be addressed (3 years)
- Identify future professional profiles to be developed
- Identify job opportunities and employability data
- Identify technological trends

- Emerging professional profiles
- Reskilling/upskilling skills needs required for AM workers
- Review, update and/or development of AM Qualifications / Units of Learning Outcomes

Outputs

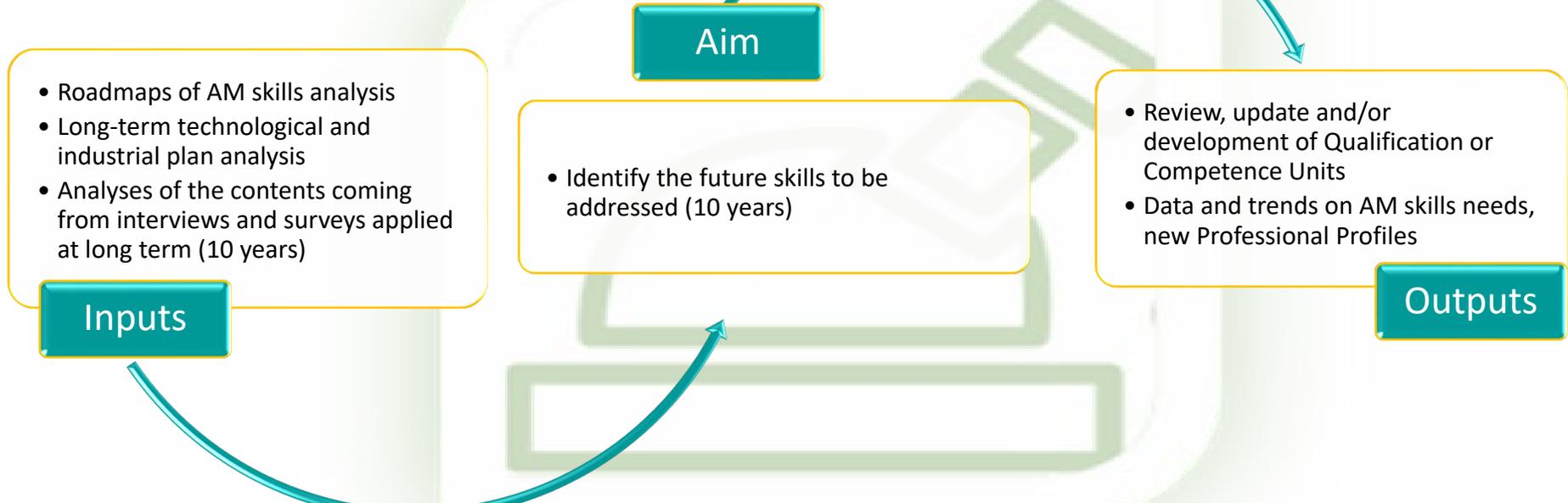
Tools

- Surveys
- Interviews
- World cafes...

Target

- Industry representatives / Employers
- AM Workers professionals
- Research and Technology Centres
- Training Centres
- Recruitment Agencies

[Check the Full Kit](#) 

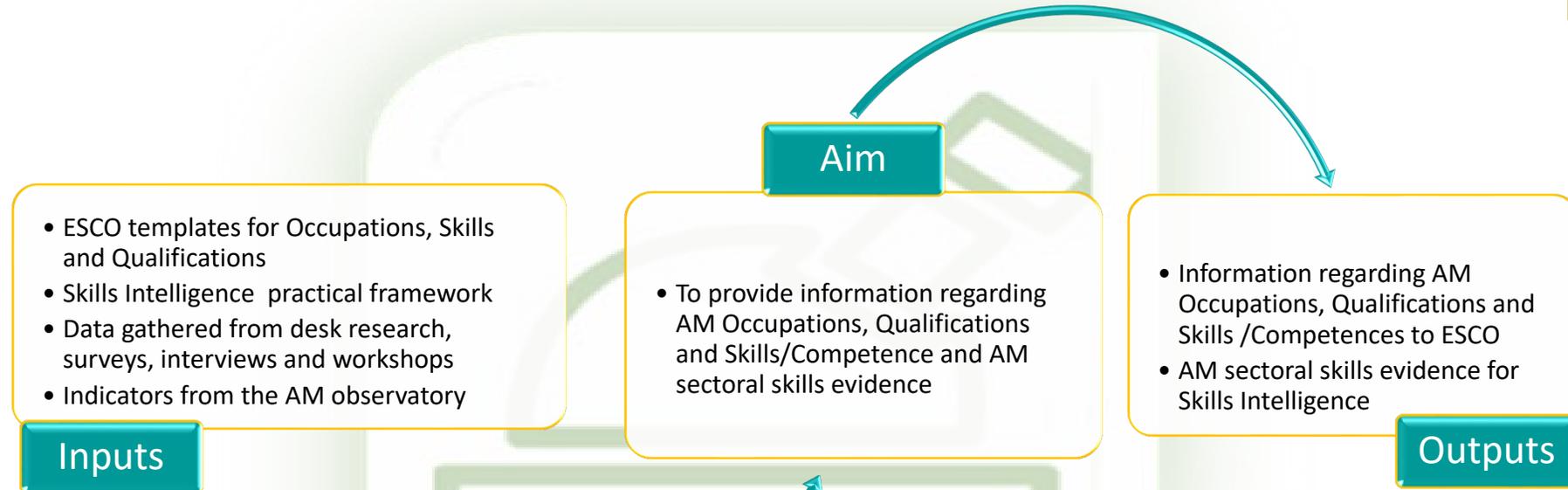


- Delphi
- Brainstorm
- World cafes

- Industry representatives/employers
- Research and technology centres

Occurrence

Every 2 years



Inputs

- ESCO templates for Occupations, Skills and Qualifications
- Skills Intelligence practical framework
- Data gathered from desk research, surveys, interviews and workshops
- Indicators from the AM observatory

Aim

- To provide information regarding AM Occupations, Qualifications and Skills/Competence and AM sectoral skills evidence

Outputs

- Information regarding AM Occupations, Qualifications and Skills /Competences to ESCO
- AM sectoral skills evidence for Skills Intelligence

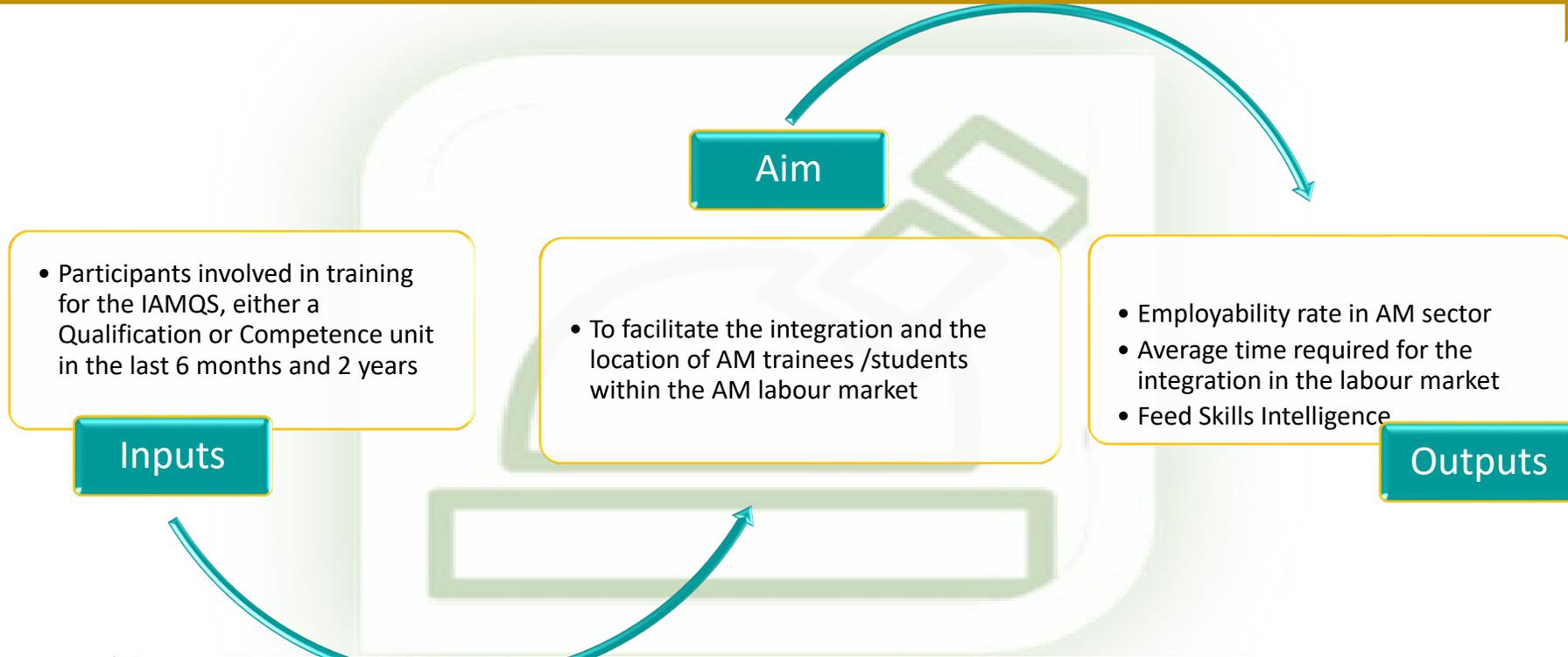
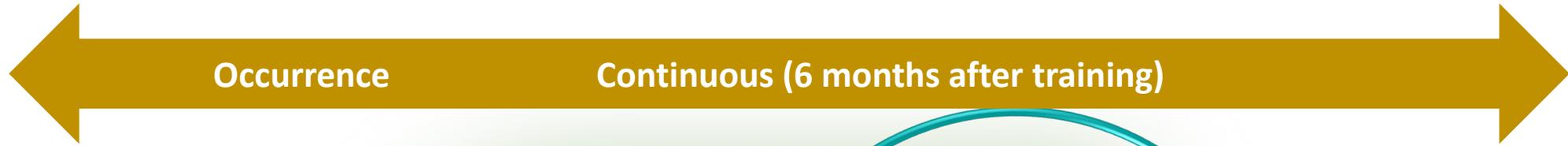
Tools

- ESCO templates for Occupations, Skills and Qualifications
- ESCO data model
- Skills Intelligence (prior Skills Panorama) practical framework for including skills evidence in Skills Intelligence platform

Target

- AM Observatory
- European Commission (ESCO) and CEDEFOP (Skills Intelligence)

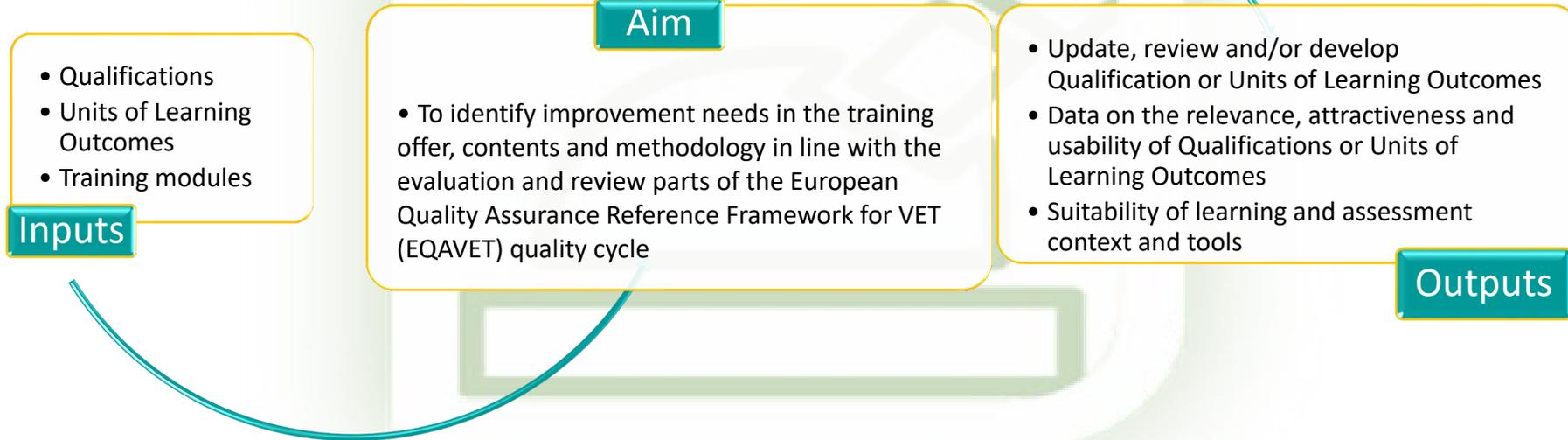
Check the Full Kit 



- Tools**
- AM Observatory Platform
 - Follow up questionnaires to trainees /students to be applied within 6 months after training (by email)

- Target**
- AM trainees / students
 - European Commission and CEDEFOP (Skills Intelligence)

Check the Full Kit 

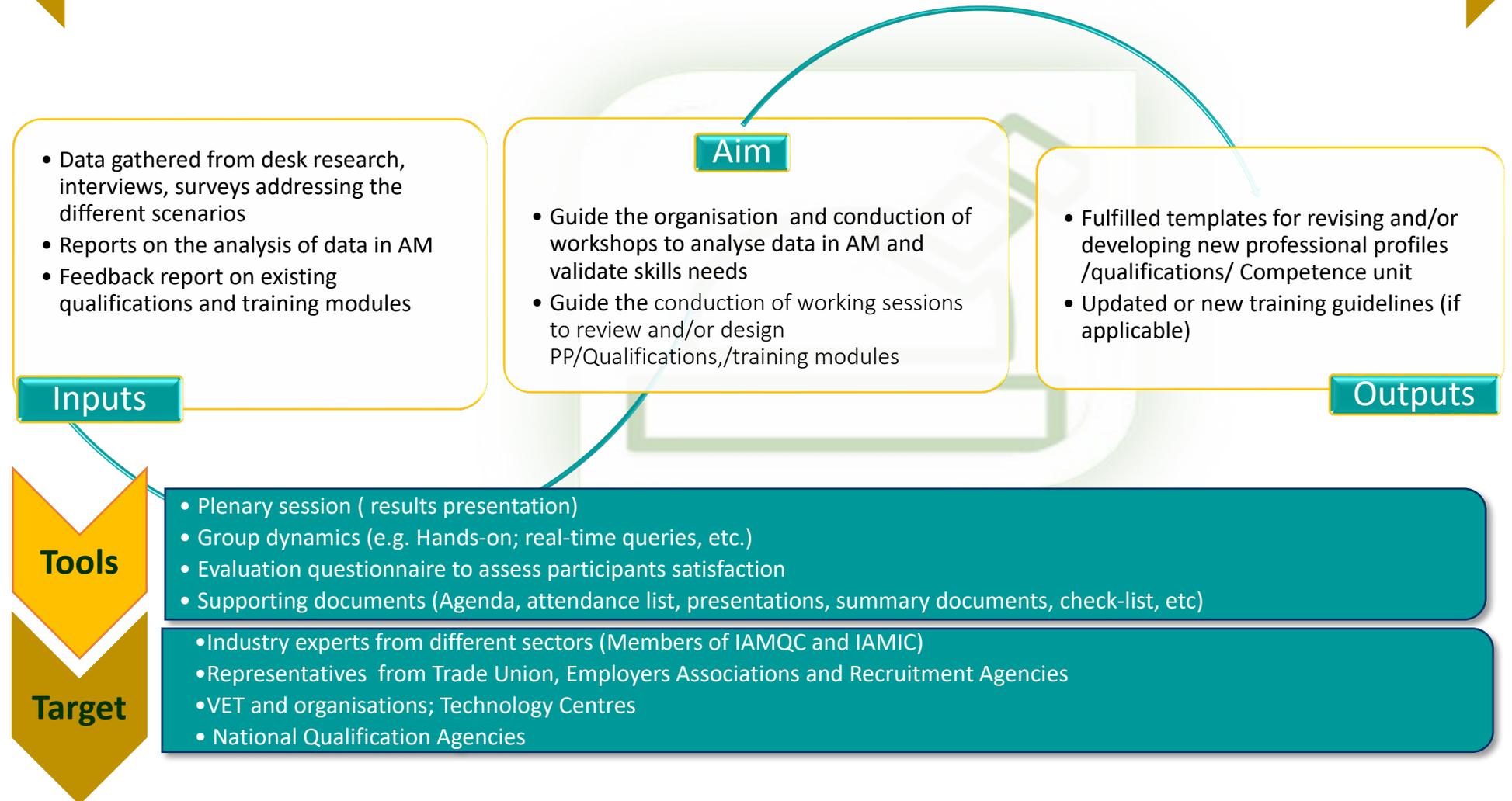


- Tools**
- Surveys

- Target**
- AM trainees / students
 - Trainers

Occurrence

Every year



Additive Manufacturing Reports



4.5 Reports on the Analysis and Validation of Needs

The [1st Report \(2020\)](#) in skills gaps and demands of the AM Sector for **the real case and short-term scenarios**. It addresses the 1st round of auscultation with key target groups, namely Companies, and Research and Technology Development Organisations (RTOs).

The [2nd Report \(2021\)](#) on **2nd round of auscultation with industry** (AM companies & workers), **training organisations and recruitment agencies**.

The [Foresight Report](#) on forecasting the AM skills, trends and developments until 2030..

4.6 Feedback Reports on the Existing Qualifications and Training Modules

The [1st report \(2021\)](#) on the feedback of students on the existing / attended training in AM during 1st stage of pilots on Real Case. And the [1st Impact and Follow Report](#) (2021)

The [2nd report \(2021\)](#) on the feedback of students on the existing / attended training in AM during 2nd stage of pilots on Real Case.