



IMT Atlantique
Bretagne-Pays de la Loire
École Mines-Télécom



DECART CAPPUCCINO

Methods & Tools (2022-25)



Agility,
Resilience and
Transformation
in Curriculum Design

www.decartproject.eu



HÁSKÓLINN Í REYKJAVÍK
REYKJAVÍK UNIVERSITY



Vilnius
University



UNIVERSITY OF
KWAZULU-NATAL
INYUVESI
YAKWAZULU-NATALI



Context

Training in the face of disruptive events and crises

- Rapidly changing contexts
- Unpredictable nature and dynamics of change +/- VUCA
- -20%, genAI, cyber-attacks, war, etc.
- Poly-crises
- DECART: iterative engineering management tools
"One cannot go without the other"



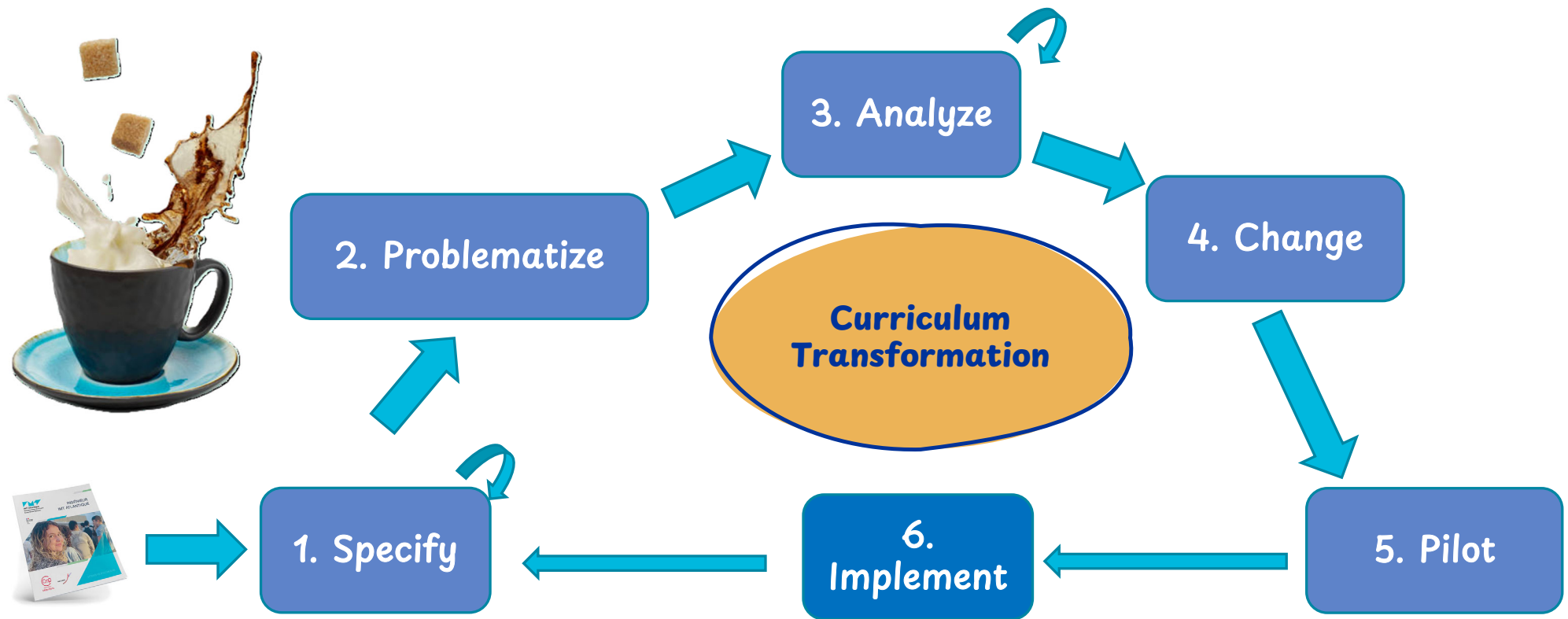
18 à 88 ans



1h à 5 ans



Method(s): Each activity can be played independently!
to support training managers and stakeholders



Method(s): Each activity can be played independently!
to support training managers and stakeholders



1. Specify

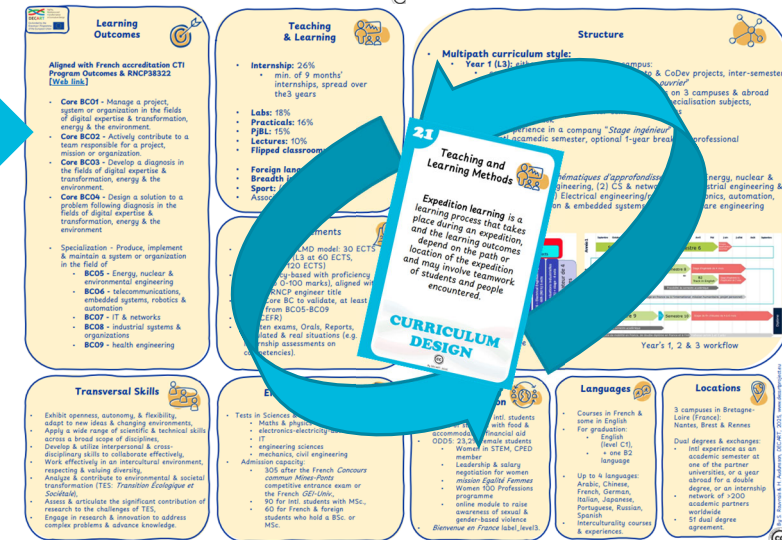
Systemic CAFE



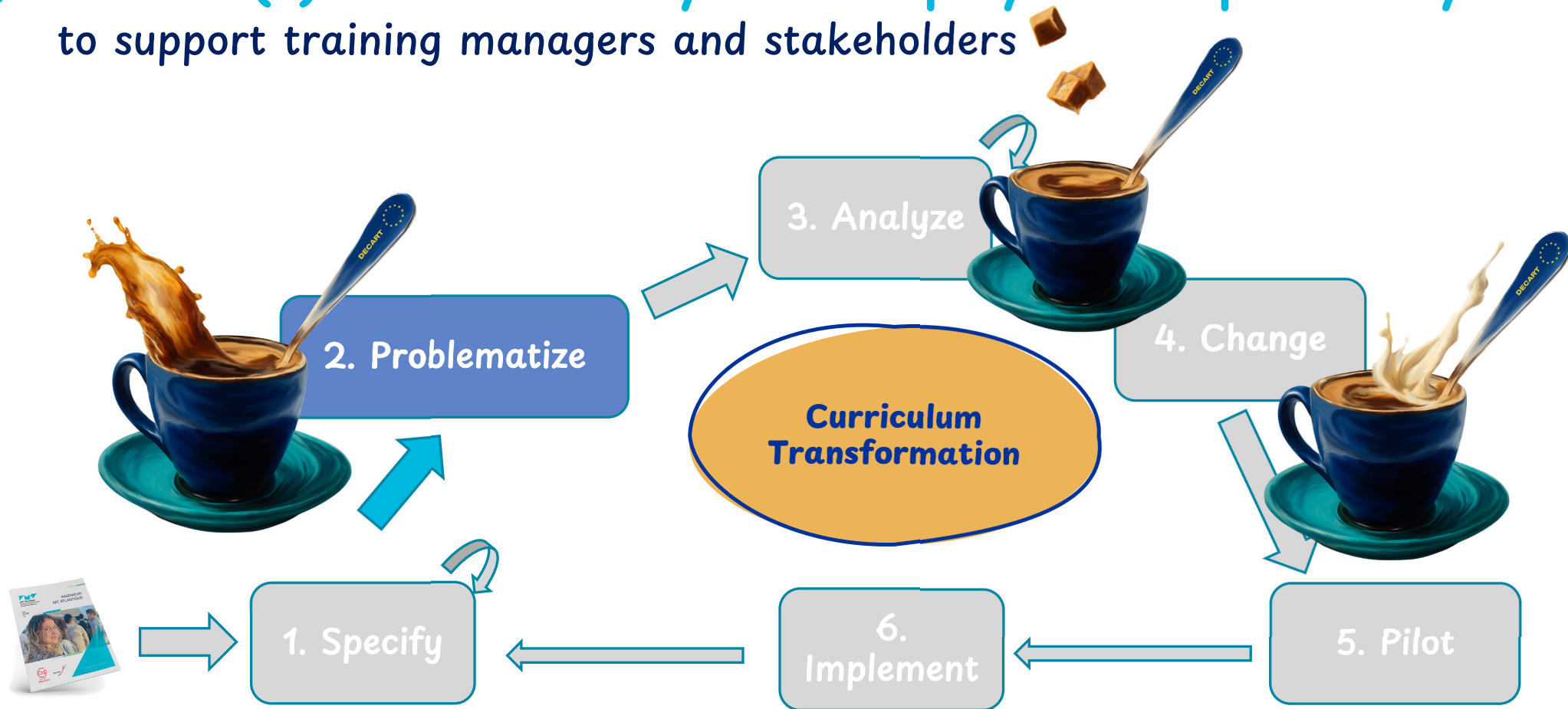
FSE Formation Supérieure	
14 July 2023	More Details (PDF brochure link)
Master of Science in Engineering French "Diplôme d'Ingénieur" (EQUIS link)	
General Description	Operational Context
<ul style="list-style-type: none"> 3-year curriculum on digital, energy & environmental sectors, maintaining a focus on the humanities & social sciences Stance on creating major industrial, digital & environmental transformations Multipath curriculum Min. 9 months of internships in France or abroad Spread over the 3-year curriculum Min. 60 ECTS Final situation: Eng. Science 	<ul style="list-style-type: none"> Technological University under authority of French Ministry of Industry & Digital Technologies Ranking: <ul style="list-style-type: none"> 2nd in 400 categories 20th in 100 categories 20th in 100 categories 20th in 100 categories Accommodation/Housing: Service on campus: 80% of students on-campus Teaching & research staff: 200 teaching staff, 100 research staff 91% of graduates in work: 200 teaching staff, 100 research staff



54 Cards + Jokers



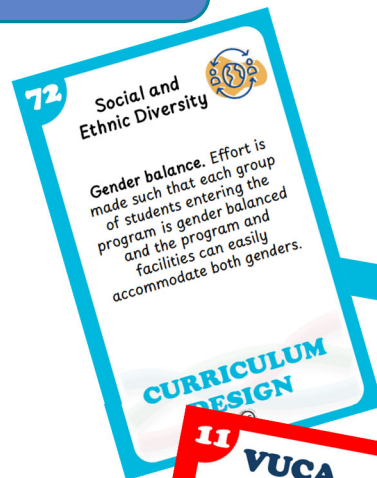
Method(s): Each activity can be played independently!
to support training managers and stakeholders



2. Problematize

Systemic CAFE

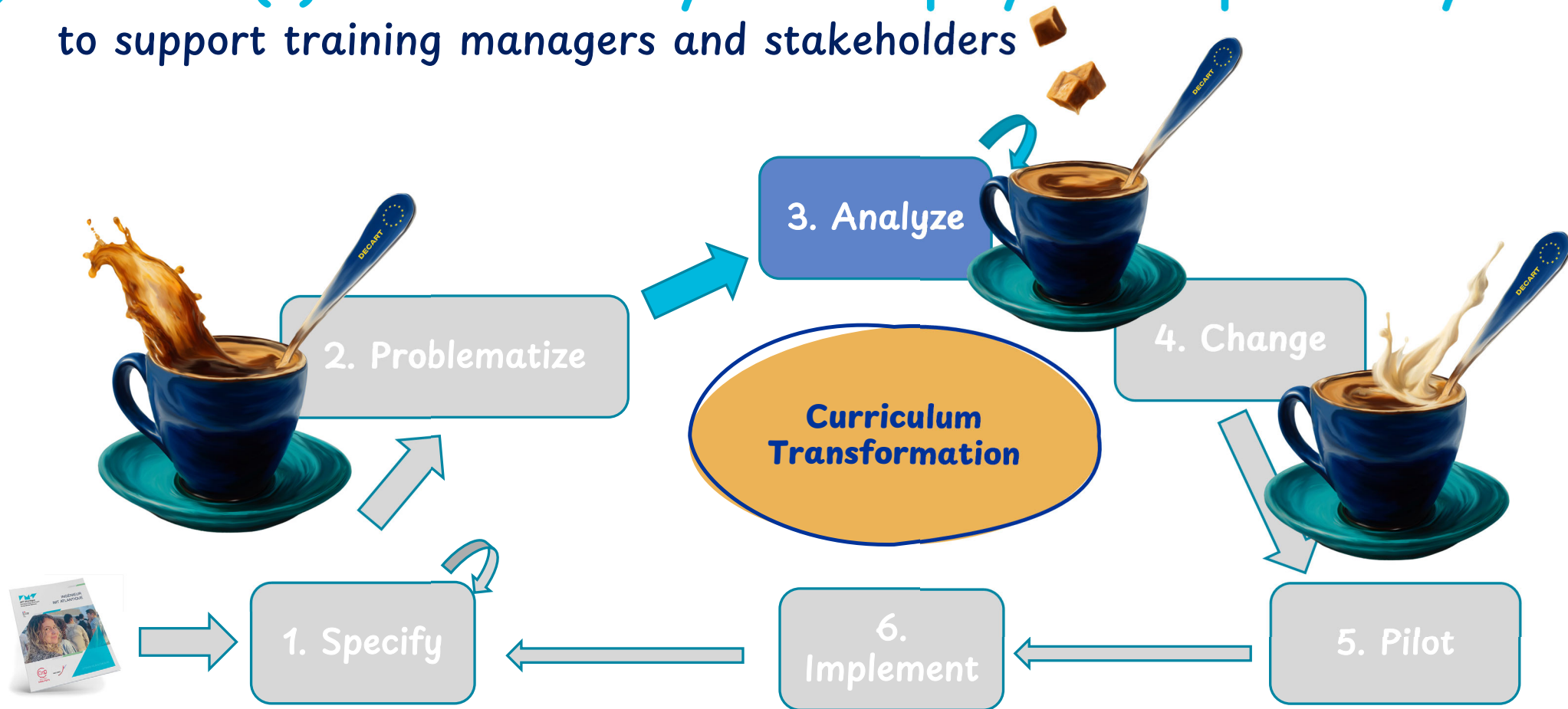
54 Cards
+ Jokers



32 VUCA Maps
+ Jokers



Method(s): Each activity can be played independently!
to support training managers and stakeholders



3. Analyze Game SUCRE

1 ID card (quantitative)

04 CURRICULUM Id.

An engineering degree in Industry and Digital Technologies, from IMT Atlantique

- UNIVERSITY CHARACTERISTICS
 - Social and environmental responsibility is part of reputation: *Yes*
 - Campus buildings concerned have high environmental performance: *Almost all*
 - Staff recruitment: the university can easily find teachers (professional or institutional) for the need of the curriculum: *Yes*
 - % of civil servants: *High*
 - Type of university: *Public sector*
 - The board of directors can set staff recruitment quotas at its discretion: *No*
 - Funding from public sector: *High*
 - Funding from private sector: *Low*
 - Funding from student fees: *Low*
 - Funding from research: *High*
 - Investment: the university can easily finance funds for investment: *No*
- Other characteristics
 - Major sectors of recruitment: *Energy, Manufacturing, Commerce & Finance, Education & Research, Transport*
 - Diversity of different scientific fields: *High diversity of scientific fields*
 - Admission conditions and selectivity: *High*
 - Dependency of curriculum on international partnership: *Yes*
 - Language of instruction: *French, in addition (non English) language*
 - The curriculum content can easily be changed in short term (no legal constraint): *No*
 - Recruitment of students is highly dependent on reputation and accreditations: *Yes*
 - Trend in number of students: *Increasing*

DECART SUCRE Curriculum Resilience Step 1b: Triggers & Impacts

Trigger(s)	Impacts

LEGEND:
 HAS A POSITIVE IMPACT
 HAS A NEGATIVE IMPACT
 NON QUANTIFIABLE IMPACT

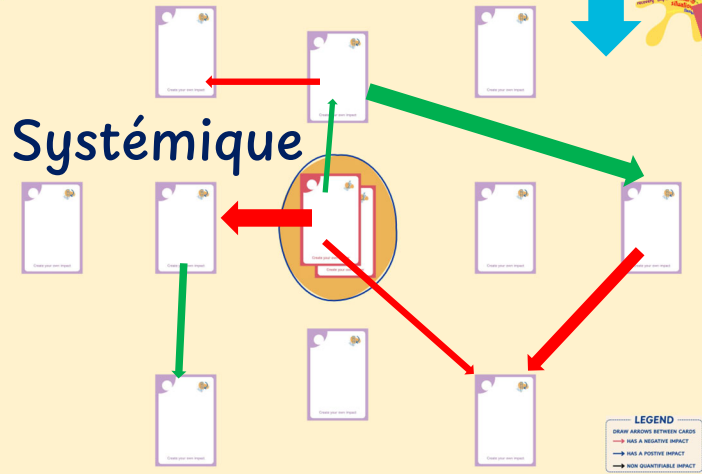
DECART SUCRE Curriculum Resilience Step 2: Resilience Sensitivity & Preparedness

Preparedness	Not Prepared but Not Sensitive	Low Resilience
Prepared		
Not Prepared		

Curriculum Analysis

Low Sensitivity High Sensitivity

DECART SUCRE Curriculum Resilience Step 1a: Consequence Scenario Map



49 CATEGORY Technology

Fake news are diffused on social networks related to your campus

39 Triggers + Jokers

44 Action Cards + Jokers

45 Impact Cards + Wildcards

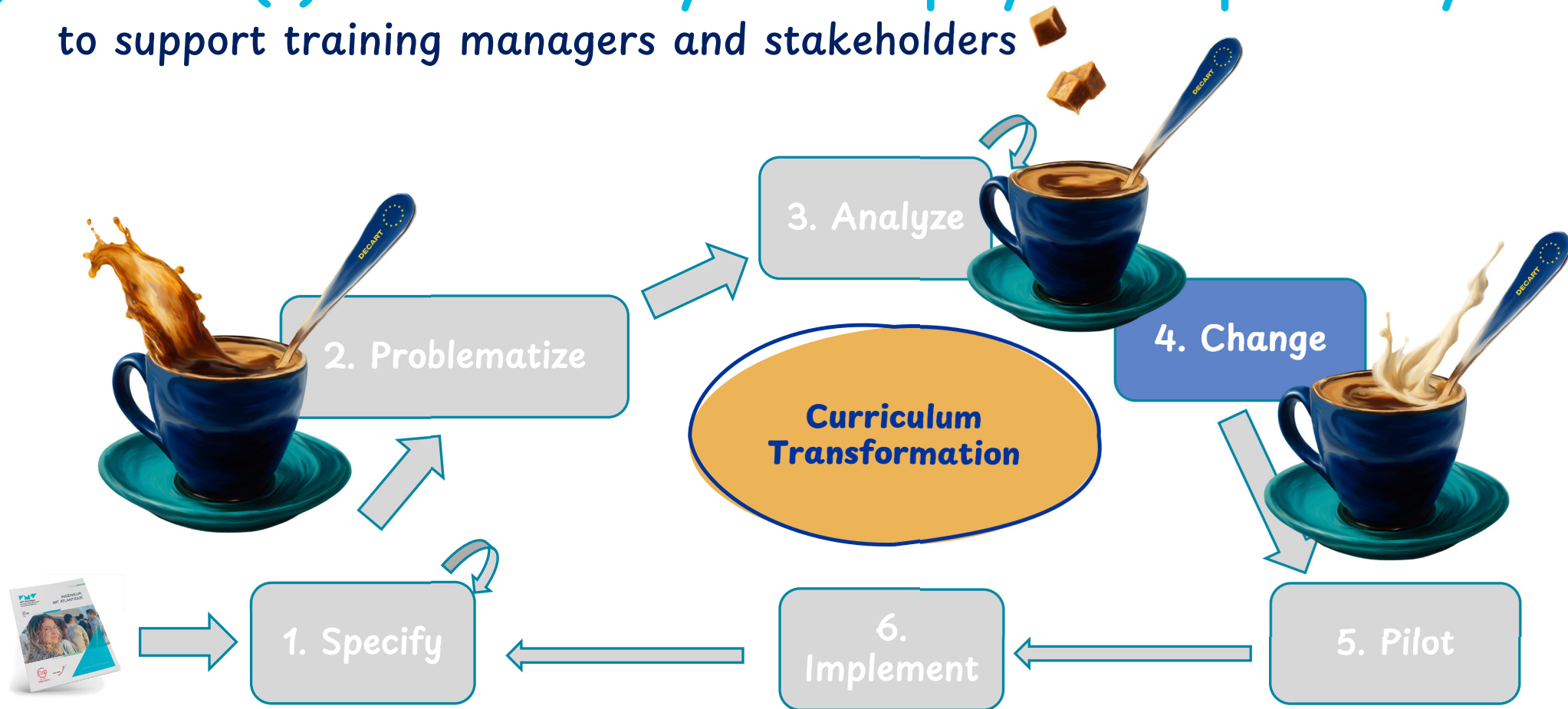
28 CATEGORY Curriculum structure

Modularity: multiple and different learning paths to achieve the learning objectives

DECART SUCRE Curriculum Resilience Step 3b: Actions & Solutions

Identified problem to cope with from Steps 1&2	Proposed solutions & type of actions	Who concerned by deployment of solutions & who impacted	Expected impacts of solutions on curriculum & HEI	Ease of flexibility: expected time up to resolution, costs, constraints, etc.

Method(s): Each activity can be played independently!
to support training managers and stakeholders



4. Change

LAIT

12 Cartes Stakeholder + Jokers

Stk Stakeholders

Programme leader

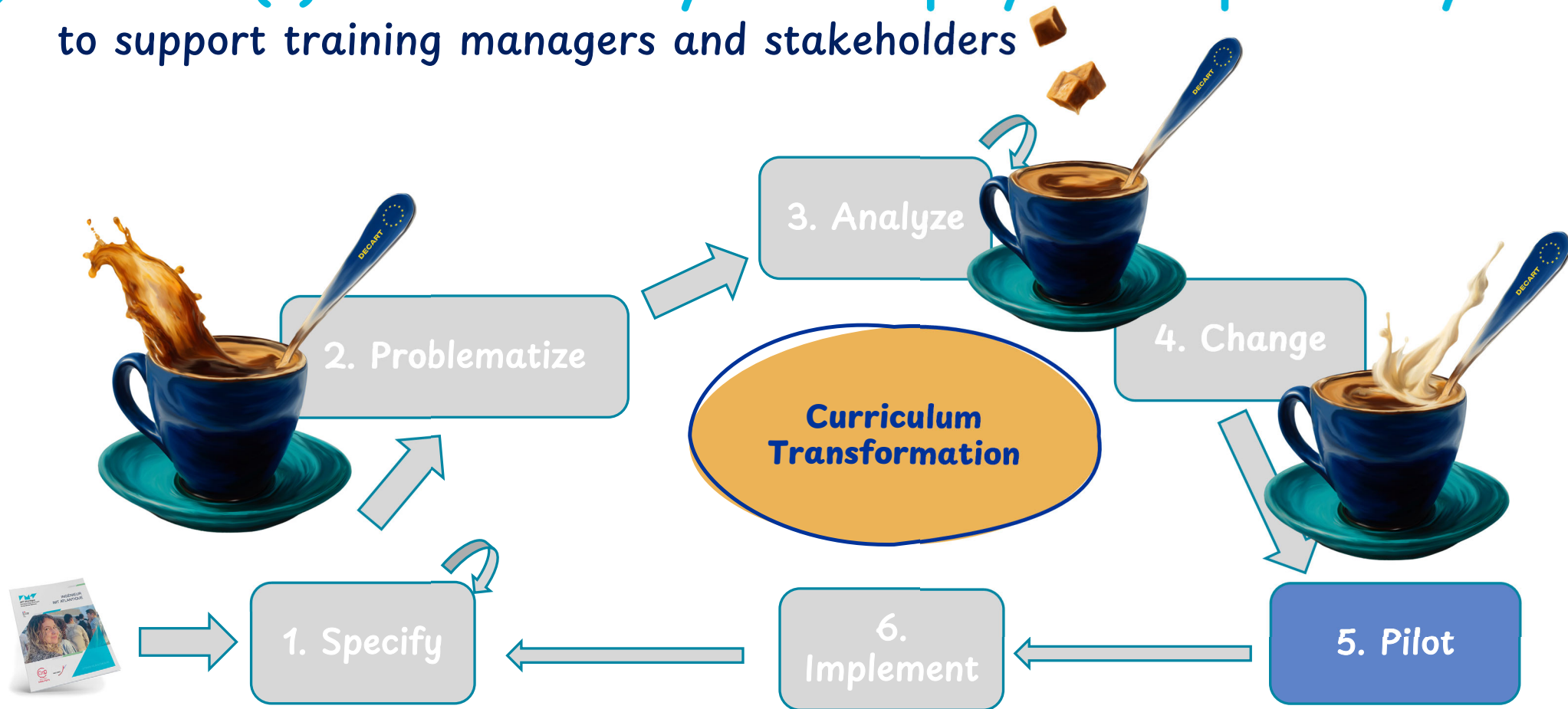
An academic staff member responsible for overseeing the management and delivery of a specific academic program or course of study within a university or college. This role involves a combination of academic leadership, administrative duties, and student support.

CURRICULUM TRANSFORMATION

Influence & Interest Matrix of Stakeholders for Curriculum Transformation



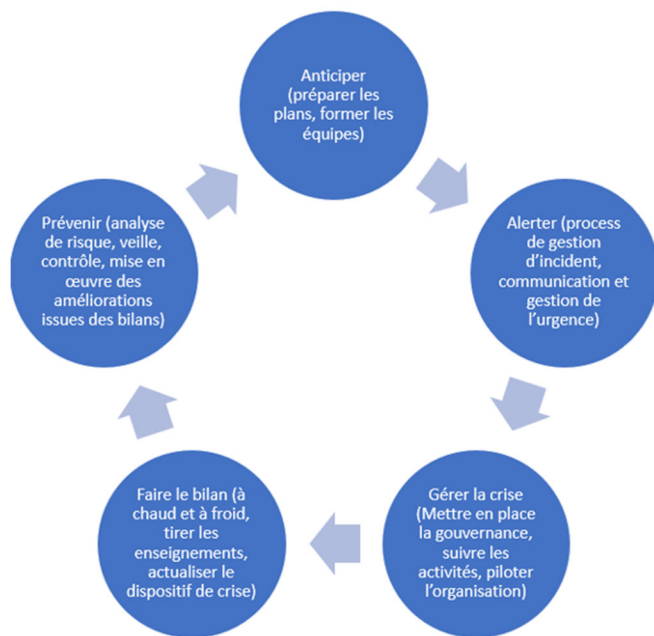
Method(s): Each activity can be played independently!
to support training managers and stakeholders



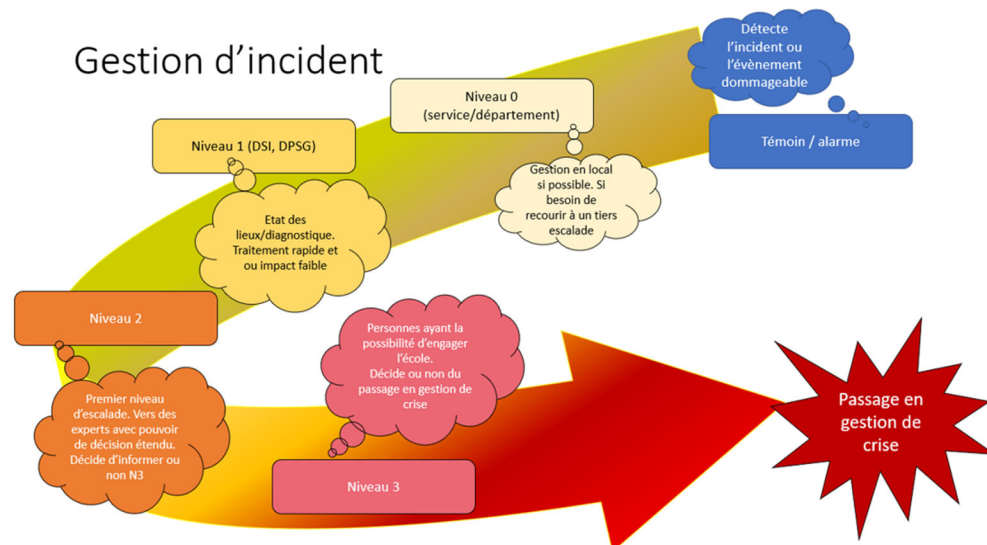
5. Pilot

Emergency and Business Continuity Plan

Le cycle de gestion de crise



Gestion d'incident



Fiches reflex



Analyse d'impact



Available CAPPUCCINO DECART Materials

Project deliverables end of October, uploads in progress



www.decartproject.eu

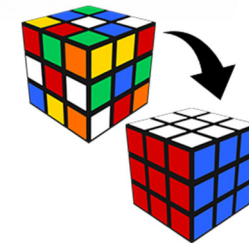
- Tools (boards & maps) & user's guides
- Printed
- A5 A4 A3 A2
- 80mg/350mg
- online Miro
- CC game boxes
- ... Kg of reports, publications, videos, etc.



18 à 88 ans



1h à 5 ans



Home About Partners News

Newsletters **Results** Sustainability

Contact Us

[illegible]