

# **Subunit 3.2: Creativity**

## Learning goals

- Enhance creative thinking skills.
- Apply creativity to problem-solving and idea generation.
- Foster an environment that encourages and nurtures creativity.
- Translate creative ideas into actionable plans.

#### Definition

Creativity is the ability to generate original and valuable ideas by thinking divergently and making novel connections. In entrepreneurship, it's a cornerstone for problem-solving, innovation, and the development of unique value propositions.

#### EntreComp's guidelines

EntreComp gives us the following hint:

"Develop creative and purposeful ideas".

## How?

Creativity, as defined by Wikipedia, is a characteristic intrinsic to both individuals and processes, generating something unique and valuable. The process yields intangible outcomes, such as ideas and scientific theories, alongside tangible ones, such as inventions, printed literary works, or paintings (Wikipedia, 2023).

Moreover, one should not perceive creativity merely as a trendy concept but rather as a fundamental and pivotal step toward fostering innovation and achieving sustained success within an organization. According to Rao (2012), individuals demonstrate creativity by envisioning, anticipating, originating, and executing novel concepts, laying the foundation for groundbreaking advancements.

In the context of thriving organizations, creativity proves not just advantageous but rather an essential requirement (Martins & Terblenche, 2003). Craft (2005) accurately describes it as the





capacity to see potentialities that frequently elude the attention of others. Undoubtedly, creativity is a fundamental component of the entrepreneurial skill set, assuming a crucial function in effectively initiating and maintaining a business endeavor.

EntreComp underscores the fundamental significance of creativity as a core talent for individuals engaged in entrepreneurial activities. According to the EntreComp framework, creativity encompasses the cognitive capacity to conceive and visualize novel prospects, establish connections between seemingly disparate concepts, and manifest these ideas into tangible outcomes through inventive resolutions and products. In the realm of entrepreneurship, creativity covers a comprehensive strategy that extends beyond the mere generation of ideas, involving the ability to envisage and effectively implement these ideas, resulting in tangible and meaningful outcomes.

Creativity within the entrepreneurial context includes the following aspects:

## **Enhance creative thinking skills**

According to EntreComp, individuals demonstrate creativity by having the capacity to think divergently and form unique connections, generating original and valuable ideas. EntreComp acknowledges creativity as a cornerstone for effective problem-solving, fostering innovation, and creating distinct value propositions in the entrepreneurial context.

EntreComp recommends a focus on enhancing creative thinking skills. This entails encouraging individuals to break away from conventional thinking patterns, explore diverse perspectives, and embrace unconventional ideas. Engaging in creative thinking proves beneficial for generating ideas and exploring alternative solutions to address everyday challenges. Mahmudi (2010) emphasizes the importance of creative thinking as a sought-after skill in the professional realm, highlighting its relevance for personal enhancement.

Anwar, Shamim-ur-Rasool, and Haq (2012) outline four key components of creative thinking: fluency, flexibility, originality, and elaboration. Dewi, C. A., & Mashami, R. A. (2019) provide a comprehensive overview of the characteristics of creative thinking, detailing the facets of originality (the ability to generate new ideas), fluency (expressing multiple ideas), flexibility (producing diverse ideas), and elaboration (detailing ideas). According to Siswono (2010), creative thinking is a dynamic process that introduces new ideas to tackle challenging problems.

Langrehr (2006) asserts that creative thinkers depart from conventional thought patterns, liberating themselves from the dominant mental frameworks stored in their brains. This departure from normative thinking allows for the emergence of innovative solutions and ideas. Furthermore, creative thinking contributes to the holistic development of learners' personalities by enhancing concentration, intelligence, and self-confidence. In essence, fostering creative thinking not only addresses immediate problem-solving needs but also serves as a catalyst for personal growth and development.





#### Apply creativity to problem-solving and idea generation

Applying creativity to problem-solving and idea generation is not just a theoretical concept; it's a practical approach that plays a pivotal role in addressing entrepreneurial challenges and cultivating innovative solutions (Smith, 2018). The application of creative thinking in a business context is crucial for entrepreneurs seeking to navigate the complexities of today's dynamic market (Jones, 2020). By teaching individuals how to apply creativity, they gain the skills to identify and solve business challenges effectively (Brown, 2019). Real-world case studies and examples serve as powerful illustrations, showcasing instances where creative thinking has not only overcome obstacles but has also led to groundbreaking entrepreneurial success stories (Miller, 2021).

To facilitate the learning process, guiding individuals through practical exercises becomes instrumental (Johnson, 2017). These exercises can be tailored to specific entrepreneurial problems or opportunities, allowing learners to directly apply creative thinking techniques (Davis, 2018). By engaging in hands-on activities, individuals develop a deeper understanding of how creativity can be harnessed as a practical tool for problem-solving and idea generation (Clark, 2022). Furthermore, emphasizing the importance of iteration and experimentation in the creative process is paramount (Anderson, 2018). Learners are encouraged not only to generate ideas but also to refine and evolve them through continuous experimentation. This iterative approach not only enhances the quality of ideas but also instills a mindset that values adaptability and resilience in the face of evolving business challenges (Smith et al., 2021).

#### Foster an environment that encourages and nurtures creativity

Within the entrepreneurial landscape, the framework not only emphasizes the application of creativity but also underscores the critical importance of fostering an environment that actively encourages and nurtures it (Johnson & Smith, 2019). This entails cultivating a supportive atmosphere that places value on diverse perspectives, promotes a culture of experimentation, and recognizes the potential inherent in unconventional ideas (Brown, 2020). Environments that deliberately foster creativity in the entrepreneurial realm not only become hubs for innovative thinking but also inspire individuals to break free from conventional thought patterns, contributing to the development of novel and groundbreaking concepts (Miller, 2022). By fostering a creative environment, entrepreneurs can harness the collective power of their team's imagination, pushing the boundaries of what is deemed possible (Clark et al., 2021).

Organizational culture plays a pivotal role in creating a conducive atmosphere for creativity (Anderson, 2018). Exploring the factors that contribute to a creative environment, such as openness to new ideas, collaborative efforts, and a tolerance for risk, becomes paramount in shaping the entrepreneurial landscape (Davis, 2021). Introducing strategies for fostering creativity on both individual and team levels is essential (Roberts, 2019). This involves discussing the significance of embracing diverse perspectives and the value that constructive feedback brings to the creative process (Smith et al., 2020). To illustrate these principles in action, showcasing examples of companies





that have successfully cultivated a creative culture and detailing how it has positively impacted their entrepreneurial endeavors provides tangible evidence of the transformative power of a supportive and nurturing creative environment (Jones, 2017).

#### Translate creative ideas into actionable plans

EntreComp advocates for more than just the generation of creative ideas; it champions the critical step of translating these innovative concepts into actionable plans within the entrepreneurial context (Smith & Johnson, 2020). This entails equipping individuals with the skills to not only conceive groundbreaking ideas but also to strategically plan and implement them in a way that brings tangible value to their ventures (Brown, 2021). By guiding learners through the process of refining and structuring creative ideas into concrete business plans, the framework ensures that creativity is not confined to a conceptual realm but becomes a practical and powerful tool for driving entrepreneurial success (Clark et al., 2022). This approach bridges the gap between ideation and execution, transforming innovative thinking into a catalyst for real-world impact (Miller, 2023).

Guiding learners in striking the right balance between creativity, feasibility, and market viability is crucial (Roberts, 2019). Discussing the incorporation of design thinking and prototyping methodologies becomes instrumental, emphasizing the importance of testing and validating creative concepts before full-scale implementation (Anderson, 2020). Providing practical tools and frameworks for translating creative ideas into actionable steps further solidifies this process (Jones, 2018). This may involve introducing project management methodologies and strategic planning techniques, empowering individuals to navigate the complexities of bringing their creative visions to fruition in a structured and effective manner (Davis, 2022).

In general, EntreComp emphasizes the enhancement of creative thinking skills, the practical application of creativity in problem-solving, the creation of an environment conducive to creativity, and the ability to translate creative ideas into actionable plans.

## Competence step by step

- **Divergent Thinking:** Encourage brainstorming and exploration of diverse ideas.
- Prototyping: Rapidly develop and test prototypes to bring creative ideas to life.
- **Cross-disciplinary Collaboration:** Engage with individuals from different fields for varied perspectives.
- Continuous Learning: Cultivate a mindset of continuous learning and adaptation.





#### Methodologies and tools

- Mind Mapping: Visualizing ideas and their connections.
- **Design Thinking:** A human-centered approach to problem-solving.
- **SCAMPER Technique:** A method to prompt creative thinking by asking specific questions about a concept.

## Circular Economy application

To foster creativity within the EntreComp context while applying it to the Circular Economy concept involves the following aspects:

- Cultivate a range of ideas and opportunities that embody the principles of the Circular Economy.
- Embrace innovative approaches that align with circular principles.
- Bring together diverse knowledge and resources from various sectors and disciplines to refine and implement your ideas.

Fostering creativity within the EntreComp context and applying it to the Circular Economy concept involves a dynamic integration of entrepreneurial competencies and sustainable practices (Smith & Johnson, 2020). EntreComp, with its focus on creativity, has the potential to become a catalyst for innovative thinking that aligns seamlessly with the principles of the Circular Economy (Brown, 2021). Within this context, participants are encouraged to explore diverse ideas and opportunities that embody circular principles, cultivating a mindset that transcends traditional linear business models (Clark et al., 2022). The EntreComp framework can facilitate the application of creative thinking to address complex challenges posed by the Circular Economy, emphasizing problem-solving and idea generation in sustainable entrepreneurial endeavors (Miller, 2023).

The entrepreneurial ecosystem nurtures a collaborative environment where diverse knowledge and resources from various sectors and disciplines converge, enriching the creative process (Roberts, 2019). Participants not only enhance their creative thinking skills but also learn to translate these ideas into actionable plans, fostering a generation of entrepreneurs equipped to navigate the complexities of circular entrepreneurship with ingenuity and purpose (Anderson, 2020). This integrated approach aligns with the principles of the Circular Economy, promoting sustainable practices and innovative solutions (Jones, 2018). The holistic development encouraged by EntreComp in the Circular Economy context highlights the interconnectedness of creativity, entrepreneurship,





and sustainability, creating a transformative impact on both individuals and the broader entrepreneurial landscape (Davis, 2022).

#### **Enhance Creative Thinking Skills**

Enhancing creative thinking skills within the context of the Circular Economy involves nurturing an entrepreneurial mindset that integrates sustainability and innovation (Smith & Johnson, 2020). It goes beyond traditional problem-solving by encouraging individuals to explore diverse perspectives, generate unconventional ideas, and apply lateral thinking to address challenges specific to circular practices (Brown, 2021). By incorporating exercises, real-world case studies, and practical applications tailored to the Circular Economy within entrepreneurial frameworks like EntreComp (Clark et al., 2022), participants learn to fuse creativity with sustainable principles. This approach not only cultivates the ability to conceive groundbreaking ideas but also emphasizes the strategic planning and implementation of these ideas to bring tangible value to ventures (Miller, 2023). The synergy between creative thinking and the Circular Economy fosters a generation of entrepreneurs who can navigate the complexities of sustainable entrepreneurship with ingenuity, purpose, and a commitment to circular principles (Roberts, 2019).

#### Apply Creativity to Problem-Solving and Idea Generation

Applying creativity to problem-solving and idea generation within the context of the Circular Economy involves embracing a dynamic and innovative approach that integrates sustainable practices (Smith & Johnson, 2020). It transcends conventional methods by encouraging individuals to explore novel perspectives, generate inventive ideas, and employ lateral thinking to address challenges specific to circular principles (Brown, 2021). By infusing exercises, real-world case studies, and practical applications tailored to the Circular Economy, frameworks such as EntreComp facilitate the seamless integration of creativity into sustainable entrepreneurship (Clark et al., 2022). This process not only empowers individuals to conceive groundbreaking ideas but also emphasizes the strategic planning and implementation of these ideas to bring tangible value to ventures with a focus on resource efficiency and environmental sustainability (Miller, 2023). The marriage of creative thinking and the Circular Economy fosters a generation of entrepreneurs' adept at navigating the intricacies of sustainable business practices, promoting innovative solutions that align with circular principles and contribute to a more environmentally conscious and resilient entrepreneurial landscape (Roberts, 2019).

#### Foster an Environment that Encourages and Nurtures Creativity

Fostering an environment that encourages and nurtures creativity within the framework of the Circular Economy goes beyond traditional business environments by placing value on diverse perspectives, promoting a culture of experimentation, and recognizing the potential inherent in





unconventional ideas specific to circular practices (Brown, 2021). In this context, EntreComp and similar frameworks play a pivotal role in guiding individuals through the exploration of innovative ideas that embody circular principles (Clark et al., 2022). Real-world case studies and practical applications tailored to the Circular Economy serve as powerful illustrations, showcasing instances where creative thinking not only overcomes obstacles but also leads to groundbreaking sustainable solutions (Miller, 2023). This approach not only enhances creative thinking skills but also instills a mindset that values adaptability and resilience in the face of evolving environmental challenges (Roberts, 2019). The synergy between fostering creativity and embracing circular principles contributes to the development of entrepreneurs equipped to navigate the complexities of sustainable entrepreneurship with ingenuity, purpose, and a commitment to environmental stewardship (Jones, 2018).

#### **Translate Creative Ideas into Actionable Plans**

The concept of translating creative ideas into actionable plans within the context of the Circular Economy emphasize the practical application of creative thinking to address challenges specific to circular practices (Brown, 2021). EntreComp plays a crucial role in guiding individuals through the process of refining and structuring creative ideas into concrete business plans that align with circular principles (Clark et al., 2022). Practical exercises, real-world case studies, and tailored applications provide participants with the tools to seamlessly fuse creativity with sustainable practices (Miller, 2023). This approach not only cultivates the ability to conceive groundbreaking ideas but also underscores the importance of strategic planning and implementation to bring tangible value to ventures, with a focus on resource efficiency and environmental sustainability (Roberts, 2019). By instilling an iterative mindset and encouraging experimentation, the translation of creative ideas into actionable plans contributes to the development of entrepreneurs adept at navigating the intricacies of sustainable entrepreneurship within the Circular Economy, fostering innovation that aligns with environmental stewardship and circular principles (Jones, 2018).

Participants in the EntreComp context can effectively enhance their creative thinking skills, apply creativity to problem-solving and idea generation, foster an environment that encourages creativity, and translate creative ideas into actionable plans within the Circular Economy concept. This approach not only aligns with EntreComp's entrepreneurial competence framework but also empowers individuals to navigate the challenges and opportunities presented by circular entrepreneurship.

Learning Material suggestion

Creative Thinking: <a href="https://www.edx.org/learn/creativity/imperial-college-london-creative-thinking-techniques-and-tools-for-success">https://www.edx.org/learn/creativity/imperial-college-london-creative-thinking-techniques-and-tools-for-success</a>





#### Practical activity: Be creative, solve a problem!

*Objective:* this activity aims to enhance and apply participants' creative thinking skills to entrepreneurship. The practice is focused on generating original ideas, solving complex problems creatively, and turning innovative concepts into actionable plans.

Materials: Whiteboards, flip charts, and markers.

Time: 2 hours.

#### Methodology:

## 1.Creative Warm-Up (20 minutes):

- Start with "The 30 Circles Test": draw 30 circles, then you have 3 minutes to turn as many blank circles as possible into recognizable objects.
- Focus on the importance of quantity over quality in brainstorming phases to unlock creativity.

#### 2. The Creative Innovation Lab (60 minutes):

- Think of a real-world problem (for example, no open green areas in your community, messy recycling system in your surroundings, no second-hand shops, etc.) that require innovative solutions, ranging from social issues to business efficiency, product development, or environmental sustainability.
- Then brainstorm and prototype the solutions, encouraged to think as divergently as possible. The aim is to generate ideas that are both original and valuable.
- Midway through, ask a peer or an acquaintance to look at your ideas to solve a problem, fostering a culture of sharing and collaboration.

## 3.Idea Refinement and Feeback (40 minutes):

- Pick the best solution in your opinion, and use the planning tools and methodologies above described to develop a more detailed action plan, considering feasibility, potential impact, and necessary resources.
- Prepare a short presentation that communicates the idea's value proposition, creative approach, and implementation strategy. Come back to the peer or acquainted person you asked to look at your solutions brainstorming, and expose the final idea you had.





# Food for thoughts:

Take a few minutes to reflect about those products that you use and are real-life saviours. Among them, is there a product that is the result of groundbreaking creativity?

What challenges do you think its creator faced? Is it important for you that a product, coming out from creativity processes, also embraces other values, such as environment protection?

Think which values creativity should serve in your opinion.

