# CBE framework & Carpe Diem process

WP4

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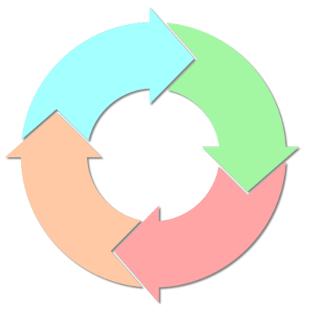






### **Comptence-based framework in digital multidisciplinary rehabilitation eduction (CBE)**

- The framework for Digital Rehabilitation Competences in East Africa
  - > The framework is based on an iterative process and different sources:
- Needs assessment WP01 RADICproject
- Landscape analysis WP02 RADICproject
- Curricula Mapping and comparison WP04 RADIC-project
- Input from rehabilitation professionals, educators, and students



- Community-based Rehabilitation Indicator Manual (WHO 2015)
- Rehabilitation Competency Framework (WHO 2020)
- DigComp 2.2. the Digital Competence Framework for Citizens (Vuorikari et al., 2022)





### The Framework for Digital Rehabilitation Competences in East Africa

- The essential aspects of Digital Rehabilitation in the region
- Aim is to improve access to rehabilitation and to enhance quality of care
- Covers competencies, digital activities, and behaviors for professionals
- Covers components throughout the entire rehabilitation process
- Is intended to serve as a guide for teaching and practice



### The framework is organized around four

### dimensions:

- 1. Health
- 2. Education
- 3. Livelihood & Social
- 4. Empowerment

### > The dimensions are linked to:

- A. Key competencies and behaviors describing the competencies
- B. Digital activities and tasks related to the activities

Dimension	Definitions Competencies	Key Competencies	Digital activities		
Health (digital service)	Practice: Competencies and activities related to (digital) interaction between rehabilitation professionals, the client and family. Competencies and (digital) activities include those necessary for establishing appropriate digital driven working relationships, assessment, planning, delivering and monitoring digital driven interventions. They use adequate decision-making and problem-solving for the entire Digital Rehabilitation process.	<ul> <li>practice</li> <li>Communicates effectively with the client, their family, and their health-care team</li> <li>Adopts a rigorous approach to problem-solving and decision-making</li> <li>Integrate evidence in practice</li> <li>Works within scope of practice and competence</li> </ul>	plans		
Education	Learning: Competencies and (digital) activities related to a digital driven development of the rehabilitation professional themselves and others. Competencies and activities within this domain involve continuous professional development, teaching and learning.	<ul> <li>Works to strengthen rehabilitation education and training</li> </ul>	<ul> <li>Supervising and teaching others</li> <li>Creatively using digital technologies</li> <li>Integrating and re-elaborating digital content</li> </ul>		
Livelihood & Social	Professionalism: Competencies and (digital) activities related to professional integrity, collaboration, (digital) safety and privacy as well as quality of care, that enable a digital driven performance of the professional role.	Works collaboratively	<ul> <li>Managing risks and hazards</li> <li>Interacting through digital technologies</li> <li>Undertaking quality improvement initiatives</li> <li>Participating in team forums</li> <li>Advising on (digital) rehabilitation</li> </ul>		
Empowerment	Management & Leadership: Competencies and (digital) activities related to teamwork, strategic thinking, management, service development and evaluation, resource management and data protection.	rehabilitation team <ul> <li>Works to enhance the performance of</li> </ul>	<ul> <li>Managing digital approaches in a rehabilitation team</li> <li>Managing rehabilitation (digital) service delivery</li> <li>Identifying (digital) needs</li> <li>Monitoring and evaluating (digital) rehabilitation service delivery</li> <li>Protecting personal data and privacy</li> <li>Protecting health and well-being</li> </ul>		

Table 1. Dimensions, Definitions of Competencies, Key Competencies and digital activities in Digital Rehabilitation in East Africa.

3.1 Competency Framework | Jamk





	Health (digital service)					
Outcomes	Clients of rehabilitation - have equal access to health services and participation in digital activities necessary to achieve the highest possible standard of health - know how to achieve good levels of health and participate in digital activities contributing to their health - participate in digital activities that prevent illness and disease - engage in planning and carry out digital rehabilitation activities with the required services - have access to suitable digital tools, can use them and know how to use them in everyday life					
Competences	Competences and activities	for Digital Rehabilitation				
1. Practice	activities include those necessa	ated to (digital) interaction between rehabilitation professionals, the client and family. Competences and (digital) ary for establishing appropriate digital driven working relationships, assessment, planning, delivering and monitoring ey use adequate decision-making and problem-solving for the entire digital rehabilitation process.				
	Key competences:	Behaviors				
	1. Places the client and their family at the center of practice	Supports the client and their family to be active partners in their rehabilitation, including decision-making Seek (digital) support to adapt practice towards the desired outcome of the client and their families responding to				
		their needs, preferences, goals and circumstances Seeks (digital) support to recognize and address barriers to the client and their family's engagement in rehabilitation, including their ability to access services				
	2. Communicates effectively with the client, their family,	Adapts communication to a range of needs and practices, including through the use of interpreters, assistive technology, and relevant accommodations				
	and their health-care team	Manages the environment to support effective communication, taking into consideration noise, privacy, comfort and space				
	3. Adopts a rigorous approach to problem-solving	Identifies personal, environmental, and health factors and seeks support to use them in conceptualizing problems and identifying solutions				
	and decision-making	Seeks support to identify innovative approaches to addressing challenges with a client and their family				
	4. Integrate evidence in practice	Maintains an awareness of current evidence-based practice				
		Follows current evidence-based guidelines and protocols				
	5. Works within scope of practice and competence Seeks support and guidance when encountering situations beyond scope of practice and competence					
19.9.2024	RADIC Mid-co	onference/H.Pernu				



Digital activities:	Tasks
1. Obtaining an environment	Providing basic explanations of what may be involved in the client's (digital) rehabilitation, including potential
for (digital) rehabilitation	benefits and harms, in the context of routinely delivered interventions
	Clarifying the understanding of, and expectations for, (digital) rehabilitation of the client and their family
	Articulating information needs, searching for data, information and content in digital environments, accessing them
	and navigating between them, inclusive information retrieval
	Managing strategies to access digital resource
	Confirming consent according to legal and/or organizational policy
2. Conducting (digital) rehabilitation assessments	Obtaining a basic health, environmental and personal history, clearly relevant to the needs of the client and their family
	Conducting routine and basic assessments of body structures and functions
	Identifying typical barriers and facilitators in the client's environment
	Conducting basic assessments of the client's performance in relevant activities and their participation in meaningful events and life roles
	Assessing (digital) resources and make choices what resources to include in the rehabilitation process
3. Developing and adapting (dgital) rehabilitation plans	Identifying rehabilitation goals with the client and their family based on their priorities and expectations and the service context
	Identifying (digital) rehabilitation interventions required to address the goals of the client and their family





#### Health (digital service)

4. Implementing (digital)	Providing the client and their family with customized education and training to promote self-efficacy and self-
rehabilitation interventions	management
	Providing and guiding the client and their family in the use of (digital) assistive products, constructing and/or
	modifying them according to needs
	Identifying and facilitating innovative modifications to the client and their family's environment to improve (digital)
	safety, (data) privacy, access and functioning
	Using preventative, restorative and compensatory exercises, techniques and physical modalities
	Development of digital content and integration into rehabilitation
5. Using evidence	Using approaches to evidence implementation in practice
6. Evaluating progress towards desired outcomes	Using evaluation measures, also including data evaluation to assess progress towards desired outcomes
	Analyzing, interpreting and critically evaluating the data, information and digital content
7. Discharging and ensuring appropriate continuity of	Following-up with the client and their family after discharge, initiating further routine services if necessary
care	Organizing, storing and retrieving data, information, and content in digital environments
	Establishing a discharge plan with the client and their family



	Education (in a Digital Pe	ababilitation setting)				
Outcomes	Education (in a Digital Rehabilitation setting)         Clients of rehabilitation         - participate in a variety of learning opportunities based on their needs and desires         - make use of learning opportunities to improve their health skills and health conditions         - experience equal opportunities to participate in learning opportunities that meet their needs and respect their rights					
Competences	Competences and activities f	for Digital Rehabilitation				
2 Learning & Development		ities related to a digital driven development of the rehabilitation professional themselves and others. Competences n invol <del>ve continuous profess</del> ional development, teaching and learning.				
	Key competences:	Behaviors				
	1. Continues to learn and develop	Reflects on practice, seeking support to identify alternative approaches and their implications				
		Applies learning to practice with support as needed				
		Seeks and reflects on feedback, amending performance accordingly, with support as needed				
	2. Supports the learning and development of others	Identifies opportunities for learning according to the needs and preferences of the learner(s)				
		Shares information and practices in terms appropriate to the needs of the learner				
	3. Works to strengthen rehabilitation education and	Encourages and motivates others in the pursuit of ongoing learning and development				
	training	Advocates for expanded opportunities for rehabilitation education and training				





2	Education (in a Digital R Clients of rehabilitation	
Outcomes		ning opportunities based on their needs and desires
		nities to improve their health skills and health conditions
		es to participate in learning opportunities that meet their needs and respect their rights
(	Digital activities:	Tasks
	1. Supervising and teaching others	Appraising the learning needs of others in the context of (digital) rehabilitation
	others	
		Initiating and leading education and training (digital) activities
		Providing constructive feedback
		Providing constructive feedback
	2. Creatively using digital	Using digital tools and technologies to create knowledge and to innovate processes and products
	technologies	osing digital tools and technologies to create knowledge and to innovate processes and products
		Planning and developing a sequence of understandable digital instructions to perform a specific task
		Being aware of behavioral norms and know-how while using digital technologies and interacting in digital
		environments
		Adapting communication strategies to the specific audience and to be aware of cultural and generational diversity in
		digital environments
	3. Integrating and re-	Modifying, refining and integrating new information and content into an existing body of knowledge
	elaborating digital content	



	Livelihood + Social (in a l	Digital Rehabilitation context)				
Outcomes	Clients of rehabilitation - acquire skills on an equal basis with others through a range of inclusive training opportunities - have access to digital service on an equal basis with others - access formal and informal social protection measures they need - access and control the way needed personal assistance is provided					
Competences	Competences and activities	or Digital Rehabilitation				
3 Professionalism	Competences and (digital) activ dig <del>ital driven perform</del> ance of th	ities related to professional integrity, collaboration, (digital) safety and privacy as well as quality of care, that enable a e professional role.				
	Key competences:	Behaviors				
	1. Demonstrates ethical conduct	Complying with professional standards, legal regulations and organizational procedures and guidelines				
		Seeking support to identify and managing real or potential conflicts of interest				
	2. Maintains professionalism	Manages professional boundaries with colleagues and stakeholders				
		Employs strategies and seeks support to maintain own health and well-being				
	3. Works collaboratively	Sharing and seeking information with/from relevant colleagues and external stakeholders				
		Cooperating with others across disciplines, roles, cultures and organizational hierarchies				
	Working respectfully and constructively, seeking support to prevent and resolve conflict					
	4. Manages professional responsibilities         Prioritizing and managing workload with support as needed					
		Adapting to uncertainty and change, seeking support when needed				





		1			
	(Livelihood + Social (in a Digital Rehabilitation context)				
Outcomes	Clients of rehabilitation - acquire skills on an equal basis with others through a range of inclusive training opportunities - have access to digital service on an equal basis with others - access formal and informal social protection measures they need - access and control the way needed personal assistance is provided				
(	Digital activities:	Tasks			
	1. Managing risks and hazards	Conducting basic assessments of routine hazards and risks			
		Reporting hazards, incidents and errors and solving technical problems			
	2. Interacting through digital technologies	Interacting through a variety of digital technologies and understanding appropriate digital communication means for a given context			
	3. Undertaking quality improvement initiatives	Contributing to quality improvement activities as directed			
	4. Participating in team forums	Contributing to team meetings and interprofessional case conferences			
		Participating in society through the use of public and private digital services			
		Seeking opportunities for participatory citizenship through appropriate digital technologies			
	5. Advising on rehabilitation	Addressing questions and concerns about rehabilitation			





	Empowerment (in a digit	al rehabilitation context)		
Outcomes	Clients for rehabilitation - make informed choices and decisions - use communication skills and resources (including supportive decision-making) to facilitate interactions effectively - play a catalyzing role in mobilizing key community stakeholders to create an enabling environment - engage in and benefit from self-help groups in local communities			
Competences	Competences and activities f			
4 Management & leadership	management and data protection			
	Key competences:	Behaviors		
	1. Works to enhance the performance of the	Recognizes and values the roles and contributions of team members		
	rehabilitation team	Engages in and supports teamwork		
		Encourages others to provide quality practice according to rehabilitation core values and beliefs		
	2. Works to enhance the performance of rehabilitation	Recognizes and promotes the needs and preferences of the population in service delivery		
	service delivery	Contributes to the development of and promotes a shared vision for service delivery		
		Recognizes the environmental context of service delivery		
		Recognizes the impact of system and structural inequalities on service delivery		
		Engages in efforts to strengthen and integrate rehabilitation in the health system		
		Being aware of the environmental impact of digital technologies and their use		
	3. Acts as a rehabilitation advocate	Participating in initiatives to promote rehabilitation provision for all who need it		
		Promoting the role and value of rehabilitation within the immediate environment		
		Encouraging and supporting people to advocate for their rehabilitation needs		





(	Empowerment (in a)digital rehabilitation context)				
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(	Digital activities:	Tasks			
	1. Managing digital approaches in a rehabilitation	Allocating digital tasks and responsibilities, with support as needed			
	team	Assisting in the establishment of lines of accountability and support digital structures for team members			
		Utilizing and providing input on mechanisms to support team communication			
		Using digital tools and technologies for collaborative processes			
	2. Managing rehabilitation (digital) service delivery	Contributing to the identification of service goals and objectives			
		Sharing data, information and digital content with others through appropriate digital technologies			
		Complying with and providing input on policies and procedures for safe and inclusive service delivery			
	3. Identifying (digital) needs	Assessing needs and possible technological responses			
		Supporting others with their digital competence development			
	4. Monitoring and evaluating (digital) rehabilitation service delivery	Identifying, evaluating, select and using digital tools			
	5. Protecting personal data and privacy	Protecting personal data and privacy in digital environments	hi		

### The Framework for Digital Rehabilitation Competences in East Africa (The FDRC-East Africa)

- With these competencies, activities, and tasks are described how in the rehabilitation process to successfully apply digital rehabilitation
- Applies to all rehabilitation disciplines and settings in East Africa
- For multidisciplinary rehabilitation clients of all ages
- More information: <u>RADIC project | Jamk</u> > Framework for Digital Rehabilitation



19.9.2024 RADIC Mid-conference/ H.Pernu



### **Carpe Diem- process**

Renewing courses based on the Carpe Diem co-creation method and process➢ Aim to have 12 online courses renewed

- Carpe Diem A team-based approach to learning design:
  - Developed by Gilly Salmon
  - Fast, effective, forward-looking learning design
  - Team-based learning design process
  - Method enhances student-centered and active learning by increasing engagement, communication, and motivation
  - Enabling co-working between educators, technicians and students
  - Creating together and can be placed into practice immediately
    - Testing with students, teachers, and working life partners

More information: Gilly Salmon - Gilly Salmon Website





### **Carpe Diem- process**

#### 1. Blueprint

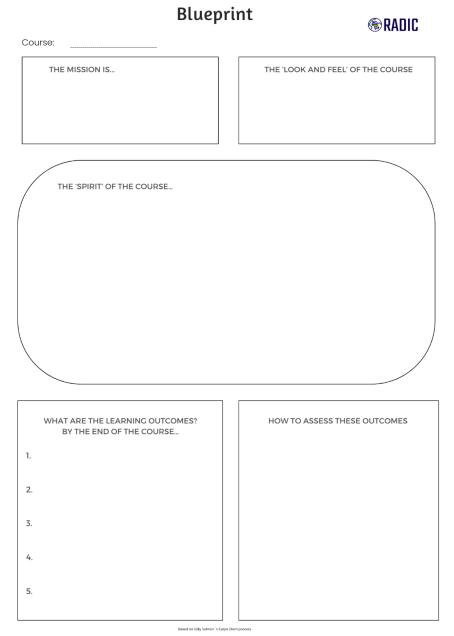
- Creates a mission statement
  - > what you want to achieve and write it down: purpose and objectives

### 2. Storyboard:

- Draws out the process of your learning, teaching, and assessment in a visual way
- Includes the schedule and scaffolding plan

#### 3. Prototype:

- Creates the design in the online environment
- Tests some real practical e-tivities
- 4. Piloting
  - > 10/2024 6/2025
  - Check reality
- 5. Review and adjust
- 6. Planning your next steps



### **1. Blueprint**

#### Create a mission statement

- What do you want to achieve!
- Write it down:
  - purpose and objectives
  - Learning outcomes
  - Assessment ideas









TIME PERIOD/ WEEK								
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CONTENT/ TOPIC								
5 STAGE								
MODEL / SCAFFOLDING								
OUX TOEDING						1       	1       	
E-TIVITIES								
FORMAT OF ASSESSMENT/							- - - - - - - - - - - - - - - - - - -	
FEEDBACK				- 1 1 1 1		- 1 1 1 1 1	- 1 1 1 1 1	
Based on Gilly Salmon´s Carpe Diem process								

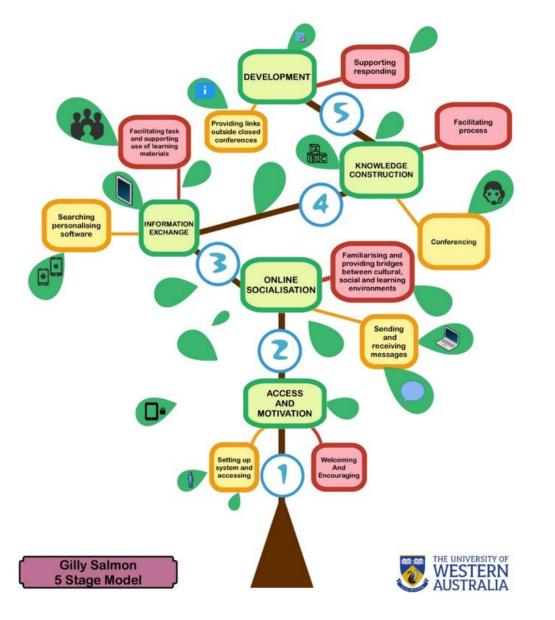
### 2. Storyboard

- Draw out the process of learning, teaching, and assessment in a visual way
  - Includes the schedule and scaffolding plan





Courses



## **5 Stage Model**

For online learning to be successful, students need to be supported through a process.

The model:

- provides a framework or scaffold for a structured and paced program of e-tivities
- offers support and development to students at each stage as they build up expertise in learning online

Five Stage Model - Gilly Salmon





Template for creating e-tivities

	i on phate for oronany o triflioo
Numbering and pacing & sequencing	
Title	
Purpose	
Brief summary of overall task	
Spark	
Individual contribution	
Interaction begins	
E-Moderator Interventions	
Schedule & time	
Next	

### 3. Prototype - E-tivities

> Try out your design in the online environment

Create some real practical testable e-tivities

add to	empathise	provide
apply	enumerate	question
argue	explain	recast/restructure/re-order
assert	explore	reflect
categorise	hold back	reinforce
clarify	hypothesize	relate to principle
classify	identify	resolve
comprehend	induce/deduce	seek
confirm/endorse	integrate	show
consider	intuit	stroke/praise/ compliment/support
contribute	label	structure
debate	link to	suggest
demonstrate	maintain	summarise
describe	memorise	sympathise
discuss	mull over	think
draw analogy	observe	understand
elaborate	paraphrase	draw metaphor

#### Action Words

carpe diem planning process workbook webversion1ju ne2020.pdf (gillysalmon.com)





### **Prototypes – online or hybrid courses**

- From e-tivities to the whole course
- Online study circles and checkpoints
- Renewal of 12 online courses
  - Mainly for the physical and occupational therapy
  - Some multidisciplinary courses
  - Building to the online environments in the process (Moodle and Canvas)
  - For example, Movement Science, Psychosocial rehabilitation, Communitybased rehabilitation, Digital health, and Community-based inclusive development



### **Piloting – soon to be started**

- 10/2024 6/2025
- 6 online courses
- 1/ university
- Teacher and working life partner together
- Piloting with students
- Review and adjust
  - Based on the feedback > modifications
- Planning next steps





### Conclusion

How have we used and how to use the framework?

Check the curricula for the key competencies
 Check the syllabi for the related behaviors
 Add the digital activities and tasks to the (online) courses



# Thank you!





