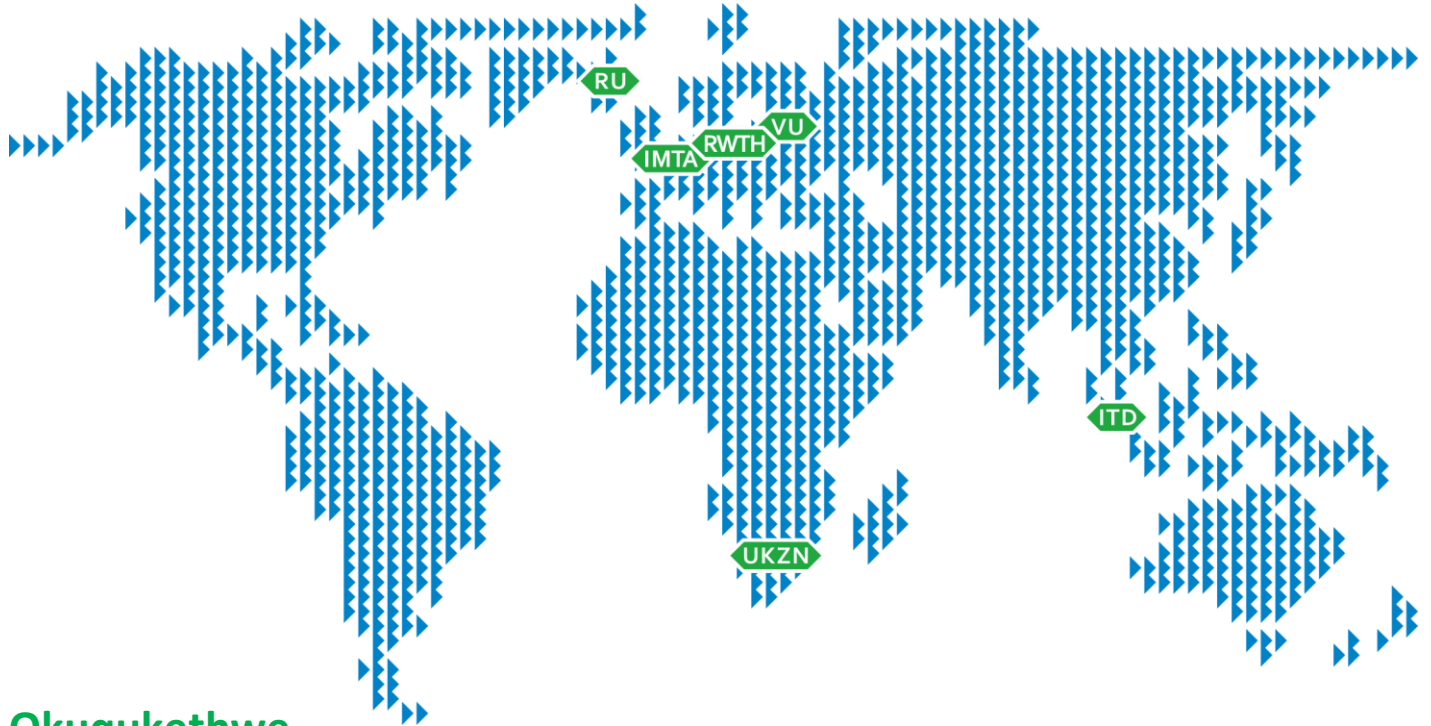


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## Okuqokethwe

- Umhlangano wokucobelelana ngolwazi obujulile wezemfundo ephakeme obusenyuvesi i-RWTH
- Isishuqulu sokusebenza sesi-2: Izindaba Zokusimama Kwekharikhulamu
- Isishuqulu sokusebenza sesi-3: Izindaba Zoguquko Lwekharikhulamu
- Isethulo engqungqutheleni ye-ISOTL
- Umbukiso Wokufunda e-Brittany, eFransi
- Isethulo eKolishi lezifundo zezomthetho nokuPhatha e-UKZN
- Izinsuku ze-#Erasmus zowezi-2024
- Isonto Lababambisene ne-UKZN emhlabeni wonke kowezi-2024
- Isethulo se-DACART sokufunda ngokwenza engqungqutheleni ye-STE
- Izincomo zoguquko lwekharikhulamu: umbiko we-WP3
- Okushicilelwe (Ikwindla yezi-2024)

## Mayelana ne-DECART

Iphrojekthi ye-DECART yocwaningo nokusungula iwuhlelo lokubambisana lwamazwe ngamazwe oluxhaswe ngaphansi kohlelo lwe-European Commission's ERASMUS+ (2022-1-FR01-KA220-HED-000087657). Lo msebenzi uhlanganisa izikhungo zemfundo ephakeme ezivela eFrance, e-Iceland, e-Indonesia, eLithuania naseNingizimu Afrika. Inhloso eyinhloko ye-DECART ukuhlinzeka ngemihlahlandlela yokuklama izinhlelo zokuqeqesha ezithuthukisa amandla okuguqula izinhlelo zemfundo, ikakhulukazi ekuqeqesheni ubunjiniyela kanye nemfundo ephakeme ngokubanzi. Le phrojekthi igxile ekuletheni amathuluzi okuklama ngokubambisana kwezifundo, izindlela nemidlalo ebucayi yokuhlaziya ukuqina, namamodeli obuholi ukuze kusekelwe ababambiqhaza bezemfundo ezimweni eziya ngokuya ziba neziyaluyalu.

## Umhlangano wokucobelelana ngolwazi obujulile wezemfundo ephakeme obuseNyuvesi i-RWTH

Abantu abavela e-France, e-Iceland, e-Indonesia, e-Lithuania naseNingizimu Afrika babambe iqhaza elibonakalayo emhlanganweni wokucobelelana ngolwazi wezinsuku ezine - wokuqeqesha abaqeqeshi - enyuvesi i-RWTH Aachen (Rheinisch-Westfälische Technische Hochschule), mhla ziyi-9 kuyamhla ziyi-12, kuZibandlela wezi-2024.



Umzuzwana ovela emhlanganweni wokucobelelana ngolwazi e-RWTH e-Aachen, eJalimane. Isithombe: Valentina Dagienė, Vilnius university, 2024

Phakathi nezinsuku ezintathu zokuqala, amalungu e-DECART agxile ekuhlaziyeni nasekucwengisiseni i-WP2 Serious Game (SG) SUCRE, ikakhulukazi umakhenikha nokuklama kwayo, ehambisana nenjongo ye-DECART O22 ye-WP2: ukwakha i-SG ukuze kuthuthukiswe ukuqina kwekharikhulamu.

Usuku loku-1 lunikezelwe esinyathelweni soku-1 se-SG, esibhekana nokusimama kweleveli yoku-1: "ukwakha ukuqwashisa ngezimo." Iseshini yaqala ngesethulo sempendulo nge-SG eqoqwe phakathi nomhlangano wephrojekthi e-Indonesia, Julayi 2024. Ngemva kwalokhu, ababambiqhaza bakha amaqembu wabadlali abathathu kuya kwabane ukuze bahlanganyele esinyathelweni soku-1 se-SG. Ekupheleni kwalolu suku lokuqala, amaqembu abelane ngemicabango yawo mayelana nokwakhiwa kwegeyimu ehlongozwayo, enikeza imininingwane ebalulekile yokuqondisa ukuthuthukiswa okuqhubekayo.

Usuku lwesi-2 lwalugxile esinyathelweni sesi-2 se-SG, esikhuluma "Izinga lesi-2 lokuqina: Ukubona ubungozi betshe eliyinhloko". Umgomo wosuku bekuwukuhlola ukuhambisana kwezindlela zegeyimu kanye nomazisi (ID) abaklanywe kusengaphambili (i-ID) ukuze kubonakale iphrofayela yesikhungo esisingatha ikharikhulamu, esidalwe, ngokuhlonza inhloso yozakwethu bezemfundo ephakeme ye-DECARTIner ikharikhulamu yesikhungo.

Amaqembu afanayo kusukela kuSuku loku-1 aqhubekile nokudlala i-SG, kusukela ezimeni zawo ezihlukene zokuphela komdlalo kusukela osukwini olwedlule. Ngokusebenzisana ne-SG nokusebenzisa amakhadi omazisi, ababambiqhaza bahlale ukuthi umklamo uwusekela ngempumelelo kangakanani umgomo we-SG isinyathelo sesi-2, unikeze impendulo ebucayi ekuqondaneni kwayo nezinjongo nezindlela zokufunda.

Usuku lwesi-3 lunikezelwe ukudlala Isinyathelo sesi-3 se-SG, esinesihloko esithi "Izinga lesi-3 Lokuqina: Ukwakha Ikhono Eliguquguqukayo." Umgomo oyinhloko walesi sinyathelo ukuhlonza izenzo zoguquko ezibhekana nezikhala zokuqina noma "izimbobo zokuqina" ohlelweni lwezifundo. Isici esibalulekile sale seshini ukuhlola ukuthi izenzo zokuguqula kufanele zethulwe kanjani—kungaba njengezenzo ezisikiselwe kubadlali, njengekhanvasi eyisithombe eqondisayo ukuze ibasize bakhombe izenzo ezinjalo, noma itholwe ngenqubo yokuxoxisana.

Ngosuku lwesi-4 lokugcina, amalungu e-DECART agxile ekuchazeni ithuluzi lokwakha ikharikhulamu eqinile. Izingxoxo bezizungeza ethuluzini lesinqumo esiqhubekayo esiklanyelwe ukusiza abaholi bohlelo ekuhloleni ukuqina kwekharikhulamu yabo. Ithuluzi lakhelwe ukuhlinzeka abaholi bohlelo ngemininingwane esebenzayo yokuthuthukisa ukuqina kwekharikhulamu yabo. Izingxoxo bezigxile

ekucwengisiseni leli thuluzi ukuze kuqinisekiswa ukuthi liyasebenza futhi liwusizo ngaphakathi komongo wezinhlalo zephrojekthi.

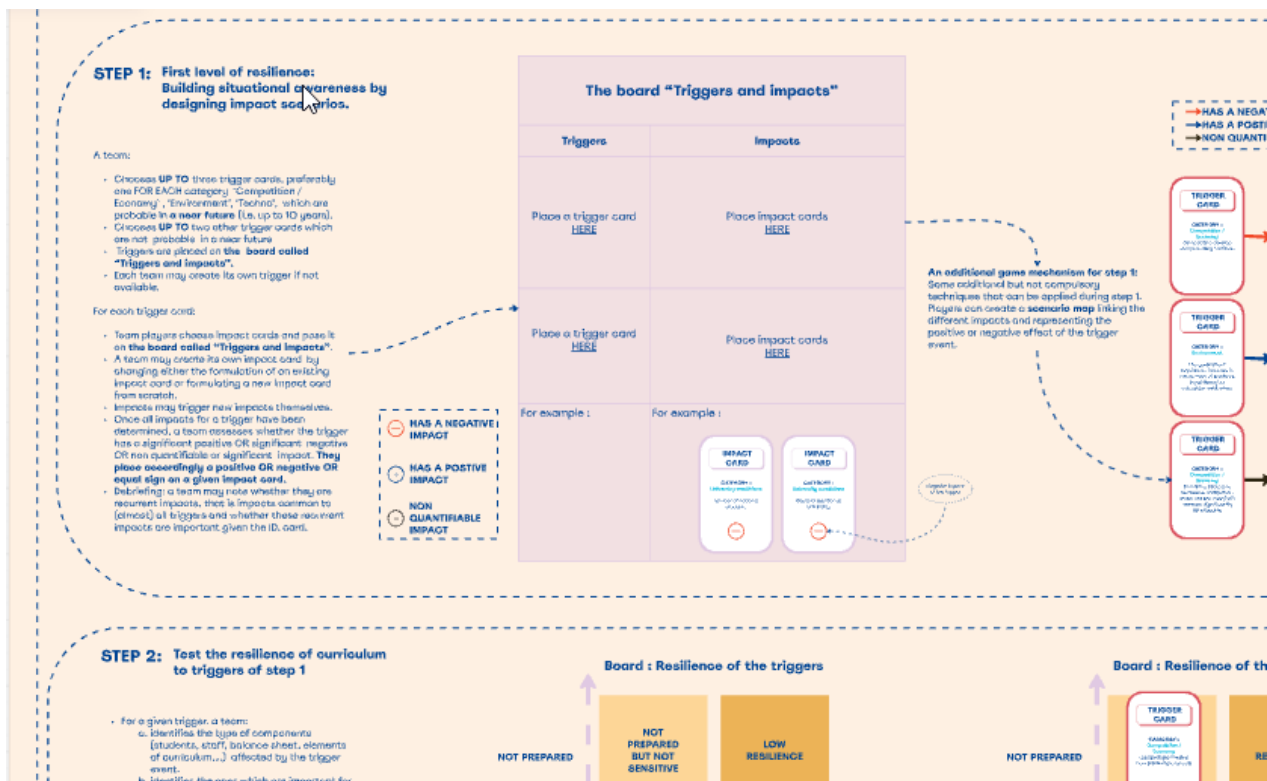
## Isishuqulu Sokusebenza sesi-2: Izindaba Zokuqina Kwekharikhulamu

Inhloso ye-WP2 eholwa yi-IMT Atlantique ukuthuthukisa ukuqonda nezindlela zokuthuthukisa ikharikhulamu eqinile. Izinjongo eziqondile ezimbili ze-WP2 ukuthuthukiswa koMzimba Wolwazi (BoK) okhombisa ubukhulu bokuqina kukharikhulamu kanye nomklamo we-SG prototype yokwakhiwa kwekharikhulamu eqinile. Uhlu lwemibuzo lwathunyelwa kumalungu enyuvesi ye-DECART ngo-Ephreli 2024 ngenhloso yokuphenya kanye nokufaneleka kwezakhiwo zekharikhulamu eqinile. Bekunemibuzo engama-23 enabaphenduli abangama-35.

Iphepha lengqungquthela elethula abashayeli bokuqina kwekharikhulamu lashicilelwa futhi lethulwa eNgqungqutheleni Yezizwe Ngezizwe ye-17 Yezemfundo, Ucwangingo Nokusungula, i-ICERI, e-Seville, eSpain ngomhla ziyi-11-13 kuLwezi kowezi-2024 (<https://iated.org/iceri>). Esebenzisa imiphumela eqoqwe ephepheni le-ICERI kanye nokubuyezwa kwezincwadi okwengeziwe, amalungu e-DECART njengamanje akha ithuluzi lesinqumo elihlanganisa i) uhlu lwemibuzo olunezinto ezixhunywe nezakhiwo zekharikhulamu eqinile kanye ii) ithuluzi lokuxilonga elihlosele ukusiza abaholi bohlelo ukuthi bahlale izinkomba ezithile zokuqina kohlelo lwezifundo eziqoqwe ezimpendulweni zohlu lwemibuzo. Ngokwenza kanjalo, bafinyelela ezinqumweni ezinolwazi mayelana nendlela yokuqinisa ukukhuthazela nokunciphisa ukuba sengozini kwesikhungo sabo ezinkingeni ngokwenza izinguquko ezihlakaniphile nezilandelekayo ezinhlelweni zokufunda.



Umfuziselo we-SG waphothulwa ku-MIRO kusukela ngoSeptemba kuya kuZibandlela wezi-2024 futhi wethulwa futhi wavivinywa emhlanganweni wokucobelelana ngolwazi wemfundo ephakeme e-RWTH, e-Aachen kusukela ziyisi-9 kuya ziyi-12 kuZibandlela kowezi-2024. Inhloso yalo mdlalo ukuthuthukisa ukusimama kwezinhlelo zokufunda ezikhungweni zemfundo ephakeme. Ngesikhathi sokudlala umdlalo, abadlali baholwa ezinyathelweni ezahlukene ukuze bathole amakhono ahlukahlukene okuqina aziwa njengabashayeli bokuqina kwenhlangano. Ngakho-ke, i-SUCRE ingaphezu kwegeyimu ebucayi, njengoba iveza inqubo esiza ekuthathweni kwezinqumo kanye nokuqaliswa kwekharikhulamu eqinile ezimweni zangempela.

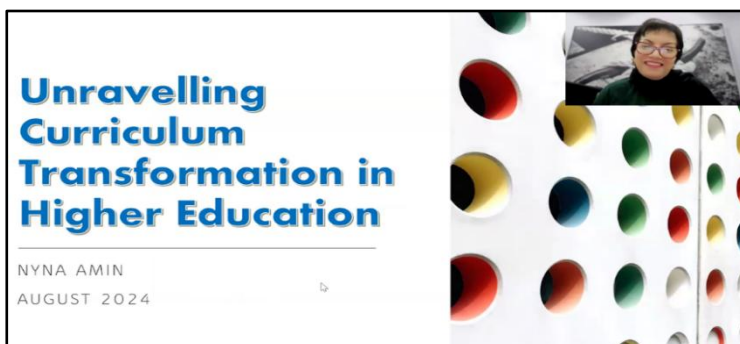


Umdwebo womdlalo obalulekile we-SUCRE ku-MIRO. ICanvas: Roger Waldeck, IMT Atlantique, 2024

### Isishuqulu Sokusebenza sesi-3: Izindaba Zokuguqulwa Kwekharikhulamu

Ithimba lase-UKZN elihola i-DECART Work Package (WP3) egxile ekuguqulweni kwekharikhulamu, lihlele umhlangano wokucobelelana ngolwazi nge-inthanethi mhla zingama-27 kuNcwaba wezi-2024. Umhlangano wokucobelelana ngolwazi ubugququzelwe nguSolwazi Nyna Amin, uMqondisi Wesikhashana: weHhovisi Lokufundisa Nokufunda lase-UKZN. UNyna ugcizelele ukubaluleka kokuzindla ngamamodeli endabuko agxile kothisha nokudala indlela yokufundisa ephendula izidingo zomphakathi nezomhlaba jikelele. Ugcizelele isidingo soguquko olunqala lwekharikhulamu mayelana nomjikelezo wokuphazamiseka ohlanganisa umjikelezo wokuphazamiseka, ukucabanga kabusha, ukucabanga kabusha, kanye nokusungula kabusha.

Isethulo sikaNyna siphinde sagqamisa ukubaluleka kokufunda okugxile kubafundi kanye nokubhekana nezinsalelo zokuguquguquka kwamandla kwezemfundo. Izingxoxo ziphinde zagxila ekuhloleni ubunzima bokuqeda ikharikhulamu, amandla e-AI kwezemfundo, kanye nokubaluleka kwezinqubo zokuthuthukisa ikharikhulamu ebandakanyayo. Ezinye izingxenye zesethulo ezigxile kukho - imithelela yoguquko, ikharikhulamu efihliwe, nesidingo sokuqhubeka nengxoxo mayelana nokuklanywa kwekharikhulamu noguquko, uma kubhekwa ubunzima obuningi. Ababambiqhaza bacabangisise ngokuthi bangakufaka kanjani ukucabanga okujulile nokuxazulula izinkinga ohlelweni lwezifundo, kanye nokuzindla ngokulinganisa imibono yomhlaba neyendawo ekwakhiweni kwekharikhulamu. Umhlangano wokucobelelana ngolwazi awugcinanga ngokukhuthaza ababambiqhaza be-DECART ukuthi baqhubeke bahlele ukucabanga okuhlelekile nesithombe esikhulu ekuguqulweni kwekharikhulamu, kodwa futhi bafunde ngoguquko lwekharikhulamu emazweni ahlukene. Ababambiqhaza baqhathanise futhi bahlonza izinsalelo ezifanayo kanye nezimo ezihlukile zikazwelonke zokuguqulwa kwekharikhulamu. Umhlangano wokucobelelana ngolwazi ubuhanjelwe nabangaphandle.





## Isethulo engqungqutheleni ye-ISOTL

Umsebenzi we-WP3 wethulwa eNgqungqutheleni Yesibili Yokusungula Engqungqutheleni Yesayensi Yokufundisa Nokufunda (ISOTL), mhla zingama-26-27 kuMandulo wezi-2024, eThekwini, eNingizimu Afrika. Isethulo sigxile “*Ekuvuleni uguquko lwekharikhulamu Ezikhungweni Zemfundo Ephakeme emhlabeni oquququkayo, ongaqinisekile, oyinkimbinkimbi futhi ongacacile (VUCA): Imibono evela kuphrojekthi ye-DECART*”. Ingqungquthela ye-iSoTL kowezi-2024 ihlanganise othisha, abacwaningi, kanye nabasebenzi abavela emikhakheni eyahlukene ukuze bahlole ukuxhumana okubalulekile phakathi kokusungula izinto ezintsha, izimiso zokuziphatha, kanye nokwenza kahle okubandakanyayo ekufundiseni nasekufundeni imfundo ephakeme.

Lo mcimbi wezinsuku ezimbili ubuhloswe ukugqungquzela inkulumo-mpikiswano kanye nokwabelana ngezinqubo ezikhuthaza ukuqanjwa kabusha ukuze kuthuthukiswe ukulingana nokufunda, ikakhulukazi ekuphenduleni uguquko lwamanyuvesi oluqhutshwa ubuchwepheshe obusha kanye nokwanda kokuhlukahluka phakathi kwabafundi nabasebenzi.



Isithombe: Umnyango wezobudlelwano wase-UKZN

Amaseshini nezethulo engqungqutheleni zazigxile ezindikimbeni ezibalulekile ezixhuma ukufundisa, ukufunda, izimiso zokuziphatha kanye nokusungula izinto ezintsha. Le ngqungquthela ibihlose ukukhuthaza ubuhlakani emfundweni ephakeme, kuhloswe ngayo ukuthuthukisa imiphumela nokucebisa ulwazi lwezemfundo lwabo bonke abafundi.

## Umbukiso Wokufunda e-Brittany, eFransi

Ithimba le-IMT Atlantique DECART lihambele uMbukiso Wokufunda wonyaka wezi-2024 e-Rennes, eFransi. Ithuba lokuthola imidlalo ebucayi yezemfundo, kuwo wonke amazanga nemikhakha. Umthombo wogqozi wamalungu e-DECART kanye nekhanvasi yedizayini yekharikhulamu kanye nokukhuthazela kokuthuthukiswa komdlalo okungathi sina nokusebenza. Ithimba leSaladi lokufunda, namakhadi eMpi Yokufunda mayelana nezindlela zokufundisa nokufunda kwaphinde kwaxoxwa ngakho, njengesicelo sokuvuselela ukuphathwa kwezinsiza zezinhlelo zemfundo.



## Isethulo eKolishi lezifundo zeMthetho nokuPhatha e-UKZN

Ithimba lase-UKZN lethule ngohlelo lwe-DECART kanye ne-WP3 osukwini lwe-UKZN College of Law and Management Studies (CLMS) ngomhla zi-2 kuMfumfu wezi-2024. Isihloko sesethulo sasithi “*Ukuhlola Uguquko Lwekharikhulamu: Imibono evela ku-Erasmus+ DECART Project*”. Umcimbi ubugxile kwindikimba ethi “*Ucwaningo Olunika Amandla Ezifundweni Zomthetho Nezokuphatha*”. Umgomo walo mgubho wosuku locwaningo lwemikhakha eminingi bekuwukhlanganisa amalungu ahlukene ezikhungweni zemfundo ephakeme, izifundiswa, abacwaningi, abaphothule, nabafundi abaphothule izifundo zabo - abavela Ezikoleni ezahlukahlukene ngaphakathi kweKolishi Lezifundo Zomthetho Nezokuphatha.

## Izinsuku ze-#Erasmus 2024

Imicimbi emibili ye-DECART yahlongozwa amalungu e-DECART phakathi ne-#ErasmusDays, okuwumgubho wamazwe ngamazwe wezinsuku eziyisithupha wohlelo lwe-Erasmus+.

Ithimba le-WP1 lihlela e-IMT Atlantique, indawo yaseNantes, umhlangano wokucobelelana ngolwazi ukuze uzwe amazwi abafundi ngokuklama kwekharikhulamu emisha. Lo mhlango ukhulume “ngesihloko esishisayo” sase-UE. I-Decarbonization iyinhloso enkulu ye-European Union ukuze kuzuzwe ukungathathi hlangothi kwekhabhoni ngo-2050. Njengesibonelo, emkhakheni wezokuthutha, abakhi bemikhumbi nabakhiqizi bezinjini bahlola ama-prototypes kanye nemiklamo yemikhumbi enikwa amandla ezinye izinhlelo zokuphehla amandla ukuze zifuthe amandla, njengokuqhutshwa komoya okusizwa umoya. Izikhungo zemfundo ephakeme, ngekharikhulamu yazo yesayensi nobuchwepheshe, manje kufanele zilungiselele isizukulwane esilandelayo sonjiniyela abanomthwalo wemfanelo ukusekela izinguquko zemvelo.



Isithombe: Anthony Diaz, IMT Atlantique, 2024

I-CURRICULUM CO-DESIGN: Abafundi be-European STEM & engineering kulindeleke ukuthi babe amandla futhi abadlali abakulungele izinguquko zamandla e-EU, babonise ngokuzimela, benze iziphakamiso ezibucayi nezizimele, babhekane nezingxabano, njll. Ividiyo emfushane yomhlangano wokusebenzela iyatholakala esiteshini se-youtube se-DECART lapha <https://tinyurl.com/decart24Edays> <https://tinyurl.com/decart24Edays>

Ukuze kuqondiswe abaholi bohlelo lwezemfundo nabaklami bohlelo lwezifundo, umhlangano wokufundisana osebenzayo uvumela ukusayina isemester yezinga le-pan-European Master. Phakathi ne-#ErasmusDays 2024, abafundi abangaba ngu-20 bezinga le-IMT Atlantique Master 2 bathathe amahora ama-2 ukuklama isemester enamaphupho. Umongo uwuhambo lwezinyanga ezi-5 ngomkhumbi ocatshangelwayo, inyuvesi eyimizulane ehlinzeka ngendawo yokuhlala yabafundi, kanye nezindawo zokusebenza zokufunda nokufundisa.

Lo mkhumbi onekhabhoni ephansi, unjengeLebhu entantayo, uhamba phakathi kwamadolobha amaningana, unikeza ukuqeqeshwa ngezixhumanisi ezihlukahlukene zamandla obukhosi base-Europe, ngenxa yokuguquguquka kwemiphakathi ehlukeneyezemfundo, yesayensi kanye nezimboni ehlangene phakathi nohambo. Emaqenjini amancane, ababambiqhaza bahlongoza uhambo lwabo lomkhumbi kumephu yendawo enikeziwe futhi badwebwe ikharikhulamu ehlanganyelwe yoqobo ngosizo lwekhanvasi yezingxenye eziyisishiyagalolunye. Alukho ulwazi lwangaphambili noma ubungcweti ezihlokweni zamandla ezidingekayo, ukuvuleleka nje emibonweni emisha nobuchule ekwakhiweni kwekharikhulamu okuhlanganyelwe.



Isithombe: Anthony Diaz, IMT Atlantique, 2024

Ithimba le-WP3 lethule isethulo esiku-inthanethi mhla ziyi-17 kuMfumfu kowezi-2024.

Isethulo sigxile “Ekuthuthukiseni oshampeni bokuguqulwa kwekharikhulamu Yezemfundo Ephakeme: Imibono evela ku-DECART Erasmus+ Project”. Ithimba lase-UKZN ligqamise imizamo yalo ekuguquleni ikharikhulamu, ligcizelela ubunkimbinkimbi obukhona kanye nemibono eyahlukene ephethwe ababambiqhaza abehlukene. Ithimba lixoxisane ngezithiyo ekufezeni uguquko lwekharikhulamu, livuma ubunzima bokuqondanisa imibono eyahlukene. Bagcizelele indima ebalulekile yobuholi ekusizeni nasekuqhubekiseni izinqubo zokuguqulwa kwekharikhulamu ngempumelelo. Lesi sethulo sibe nesandla enkulumweni ebanzi ngemfundo yamazwe ngamazwe, ukusebenzisana, kanye nemizamo eqhubekayo yokulungisa amakharikhulamu ezemfundo ukuze ahlangebezane nezidingo zamanje.

**UNIVERSITY OF KWAZULU-NATAL**  
UNIBESITHI YAKWAZULU-NATALI

**Erasmus+**  
Enriching lives, opening minds.

**DECART**  
Agility, Resilience and Transformation in Curriculum Design

## Developing Curriculum Transformation Leaders: Insights from the DECART Project

Join us for a presentation by Prof Cecile Gerwel Proches, Prof Angela James and Prof Macdonald Kanyangale from the University of KwaZulu-Natal (UKZN) in Durban, South Africa. We will present an overview of work done to date on curriculum transformation in the Erasmus+ DECART project (Designing Higher Education Curricula for Agility, Resilience and Transformation). DECART is a research and innovation project, and involves an international co-operation partnership. Partner institutions are from France (IMT Atlantique), Germany (RWTH Aachen University), Iceland (Reykjavik University), Lithuania (Vilnius University), Indonesia (Del Institute of Technology) and South Africa (UKZN). The project aims to facilitate the sharing of innovative curricula and their volatile, uncertain, complex and ambiguous (VUCA) properties, develop curriculum cooperation modes that are resilient, strengthen leadership capabilities for driving curriculum transformation, and to disseminate innovative curricula structures, curriculum design methods and leadership tools.

**Prof Cecile Gerwel Proches** is an Associate Professor based in the Graduate School of Business and Leadership at the University of KwaZulu-Natal. Her teaching, research, and supervisory interests include leadership, organisational behaviour, and change management.

**Prof Angela James** is an Associate Professor based in the School of Education, University of KwaZulu-Natal. She is the Academic Leader: Community Engagement and has over 30 years teaching and community engagement experiences and over 20 years research in the schooling, tertiary and adult education sectors.

**Prof Macdonald Kanyangale** is an Associate Professor based in the Graduate School of Business and Leadership at the University of KwaZulu-Natal. His areas of research interest include strategy-as-a practice, strategic leadership, and sustainable leadership in organisations.

**DATE:**  
17 OCTOBER  
2024

**TIME:**  
9AM – 10AM  
(SAST)

[CLICK HERE TO RSVP](#)

**#ERASMUS+ DAYS**

**INSPIRING GREATNESS**

Ithimba le-WP3 lethule isethulo esiku-inthanethi mhla ziyi-17 kuMfumfu kowezi-2024.



## Isethulo sokufunda ngokwenza se-DECART engqungqutheleni ye-STE

Ingqungquthela Yesine Yamazwe Ngamazwe Yezemfundo Yesayensi Nobuchwepheshe i-STE yowezi-2024 yenzeka e-Porto, e-Portugal, 3-4 Okthoba wezi-2024. Ihlinzekele amalungu e-DECART French izikhungo ezinhle kakhulu zokusebenzelana kwesayensi kwekhwalithi ephezulu. Le ngqungquthela iba njalo eminyakeni emi-2. Okugxilwe kakhulu kwezemfundo kwezesayensi nobuchwepheshe. Le ngqungquthela inikeze inkundla yamazwe ngamazwe yokwabelana, ukusabalalisa nokuxoxisana ngocwaningo, isipiliyoni kanye nemibono ezindabeni eziningi zokufundisa nokufunda. Ikhanvasi yokuklama ikharikhulamu ye-DECART yethulwe njengomthelela wayo ekuvuselelweni kwekharikhulamu nokulungiselela izinguquko.



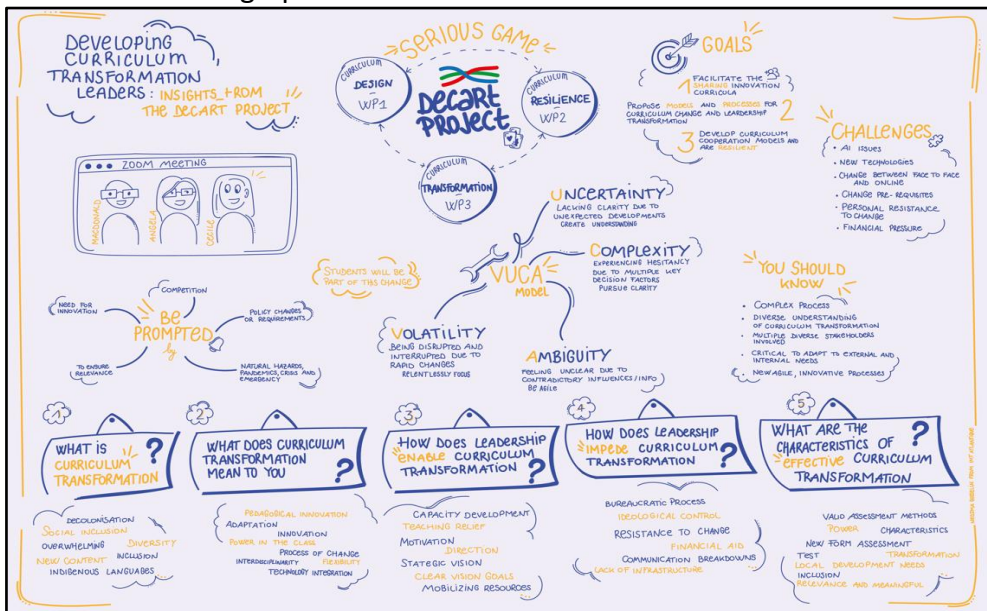
Isithombe: Siegfried Rouvrais, IMT Atlantique, 2024

## Isonto Lababambisene ne-UKZN emhlabeni wonke kowezi-2024

Ithimba le-WP3 DECART elethulwa esontweni Lababambisene ne-UKZN emhlabeni wonke kowezi-2024, elalibanjwe mhla zingama-28 kuMfumfu kuya mhla lu-1 kuLwezi kowezi-2024, mayelana nalo msebenzi nomsebenzi we-WP3. Bekukhona abahlanganyeli abavela emazweni angama-20 (iNingizimu Afrika, iFransi, iBelgium, i-Italy, i-Austria, iTanzania, iLatvia, iMauritius, iSri Lanka, iTopica, iMalawi, iSwatini, i-USA, iChile, iCôte d'Ivoire, iZimbabwe, iMadagascar, iSenegal, i-United Kingdom). Itimu ibiku-Innovation for Global Engagement.

## Izincomo zoguquko lwekharikhulamu: umbiko we-WP3

Imibiko ye-DECART iyatholakala kuwebhusayithi yeprojekthi. Umbiko we-DECART kanye ne-D31 okulethwayo mayelana noGuquko Lwekharikhulamu: Abashayeli Nezinsesele, ufingqa umsebenzi owenziwe esigabeni sesithathu salo msebenzi, okungukuthi ukuqonda uguquko lwekharikhulamu Ezikhungweni Zemfundo Ephakeme. Lokhu kwenziwe yithimba lase-UKZN WP3, uCecile Gerwel Proches, Macdonald Kanyangle no-Angela James. Umbiko uveza izindlela, imisebenzi namathuluzi ahilelekile maqondana nephakheji yomsebenzi wesithathu. Imiphumela iveza ukuthi uguquko lwekharikhulamu lungacatshangelwa kanjani, ubukhulu bokuguqulwa kwekharikhulamu, kanye nezimbangela, ukuphazamiseka nezinsesele ekuguqulweni kwekharikhulamu.



Canvas: Nedjma Gosselin, IMT Atlantique, 2024



Izincomo zihlinzekwe ngezansi ukuze babambiqhaza abehlukene kuma-HEI balawule kangcono uguquko lwekharikhulamu.

- Ukulungiselela umongo we-VUCA, kunesidingo sokuqonda okubanzi kokuguqulwa kwekharikhulamu. Kungase kuthathwe njengento eyinkimbinkimbi enezincazelo ezihlukahlukene, inqubo eqhubekayo neguquguqakayo, ehlela izinhlobozinhlobo zangaphakathi kanye nababambiqhaza.
- Uguquko lwekharikhulamu lunezinhlangothi eziningi futhi lunezici ezibalulekile, ezidinga ukunakwa ukuze uguquko lwekharikhulamu luphumelele.
- Ukufuneka kwezinqubo zokuguqulwa kwekharikhulamu kufanele kufake ukuphishekela ngokuqhubekayo izimpendulo zezingxenywe ezahlukene zohlaka lokuguqulwa kwekharikhulamu, kugxilwe ekutheni kungani, ini, ubani, nini, futhi kuhlobana kanjani nokuguqulwa kwekharikhulamu.
- Ama-HEI adinga ukuzulazula ekuthuthukisweni kwezobuchwepheshe nezinseselele ngokucophelela, aqinisekise ukuthi ukuhlenganiswa kobuchwepheshe kuthuthukisa ukufunda kunokuba kukuphazamise. Ukuthuthuka kwezobuchwepheshe kunendima ebalulekile ekuguqulweni kwekharikhulamu, ikakhulukazi kumongo we-AI, amathuluzi edijithali, kanye ne-Industrial 4.0 egcizelela isidingo sohlelo lwezifundo ukukhombisa izinguquko zomphakathi nezimakethe emhlabeni wedijithali. Kodwa-ke, kunesidingo sokuqapha njengoba amathuluzi edijithali kanye ne-AI kungajulisa ukungafani phakathi kwezikhungo ezinamazinga ahluahlukene ezinsiza futhi kuthinte kabi izinga lemfundo, ukuzibandakanya kwabafundi, kanye nendima kathisha.
- Impumelelo yokuguqulwa kwekharikhulamu incike ekutheni ama-HEI angakwazi kanjani ukuzulazula ezinhlobozinhlobo zezinguquko eziphazamisayo, aqinisekise ukuthi athuthukisa imiphumela yokufunda, asekela ukuthuthukiswa kwamakhono, futhi ahlangebezane nezidingo zomphakathi ngaphandle kokukhungathekisa abafundi noma ukubeka engcupheni ikhwalithi yemfundo.
- Ukuhlelwa okunamandla kwekharikhulamu nokuhlelwa kabusha kuveza isidingo sendlela yokusebenzisana lapho bonke ababambiqhaza—abafundi, othisha, abalawuli, izimboni kanye nezinhlobo zobungcweti—beqondanisewe ekuqondeni kwabo nasekulindelweni kwezinguquko zekharikhulamu. Ukuxhumana okucacile, ukuthuthukiswa kochwepheshe okuqhubekayo, kanye nendlela yokuhlanganyela yokuklama ikharikhulamu kubalulekile njengoba ukungaboni ngaso linye kukwazi ukubukela phansi ukusebenza kahle kwezinguquko zekharikhulamu, ikakhulukazi uma abafundi bezizwa begajwe izimfuno ezintsha noma uma ubuhlakani bungakakulungeli ngokwanele ukusebenzisa izindlela zokufundisa ezintsha.

### Izishicilelo (zonyaka wezi-2024)

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