



Workshop LAPASSION - Multidisciplinary Projects for Groups of International Students

Carlos Ramos, Polytechnic of Porto (IPP, Portugal)

Tiina Koskiranta – Tampere University of Applied Sciences (TAMK,
Finland)

Natilene Brito and **Virgínia Freire** – Federal Institute of Maranhão
(IFMA, Brazil)

Juliana Alves - Federal Institute of Triângulo Mineiro (IFTM, Brazil)

Agenda

Block I

1- Capacity Building for Higher Education - An Erasmus+ Programme with possibility to involve Brazilian partners - Carlos Ramos ISEP-IPP/Portugal

2- LAPASSION project description - Carlos Ramos ISEP-IPP/Portugal

Questions for 1 and 2

Block II

3- LAPASSION project - the perspective from Europe and Finland - Tiina Koskiranta TAMK/Finland

4- LAPASSION project - the perspective from Brazil and Latin America – Natilene Brito IFMA/Brazil

5- LAPASSION@Santiago - the first set of Multidisciplinary Projects for Students, Carlos Ramos ISEP-IPP/Portugal

Questions for 3, 4, and 5

Interval

Agenda

Block III

6- LAPASSION@Uberaba - Multidisciplinary Projects for the Challenge "Food for the Future" - Juliana Alves IFTM/Brazil

7- LAPASSION@SãoLuís - Multidisciplinary Projects for the Challenge "How to improve the HDI of Maranhão" - Virgínia Freire IFMA/Brazil

8- LAPASSION@Uruguay - Multidisciplinary Projects for the Challenge "How to improve the conditions of Children" – Carlos Ramos ISEP/IPP, Portugal

Questions for 6, 7, and 8

Block IV

9- Future Issues in LAPASSION - Carlos Ramos ISEP/IPP, Portugal

Questions for 9

End

1- Capacity Building for Higher Education - An Erasmus+ Programme with possibility to involve Brazilian partners

Carlos Ramos, ISEP-IPP/Portugal

Capacity Building for Higher Education Programme from Erasmus+

ERASMUS+ KEY ACTION 2 (KA2) – COOPERATION FOR INNOVATION
AND THE EXCHANGE OF GOOD PRACTICES

CAPACITY BUILDING IN THE FIELD OF HIGHER EDUCATION

- Transnational Cooperation Projects
- **Multilateral Partnerships**, mainly involving **HEI** from **Programme Countries** (EU) and **Partner Countries** (from some other geographical areas)
- Non-academic partners can be involved, namely with a better connection with Enterprises and Society
- **Exchange of Experiences and Good Practices and Mobility of People** (Professors, other Staff, Students, staff from non-academic institutions)
- **Students**: study or internships
- **Staff** (Professors or other Staff): teaching or training

Capacity Building for Higher Education Programme from Erasmus+

- **Wide** range of partners
- **Balanced** partners' involvement
- **Good distribution** of activities
- Clear demonstration of the **network skills**
- **Beneficiary are third-countries** (target countries), their HEI and systems
- 2 to 3 years
- Minimum 500.000,00 €; Maximum 1.000.000,00 €

Some considerations

- Focus on CBHE with Latin America
- Be prepared for a hard work proposal
- Usual Deadline (beginning of February)

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- Be prepared for a hard work proposal
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Why nobody answers to my requests?

Where are the signed "mandates" ?

Where are the budgets?

Who will be the development team from each partner, and where are the short CV?



First suggestions

- Start project preparation asap (after FAUBAI is good)
 - Call appears at the end of October, but late to start at this moment



Outubro a call não sai (October the Call doesn't appears)

Sai, sai (Yes, it appears, it appears)

Outubro a call não sai não (October the Call doesn't appears)

Sai, Sai, Sai (Yes, it appears, it appears, it appears)

And it really appears, maybe with some differences from previous year, but are details, don't wait for the call to start the work

Last call in the following link:

https://eacea.ec.europa.eu/erasmus-plus/funding/capacity-building-higher-education-2019_en

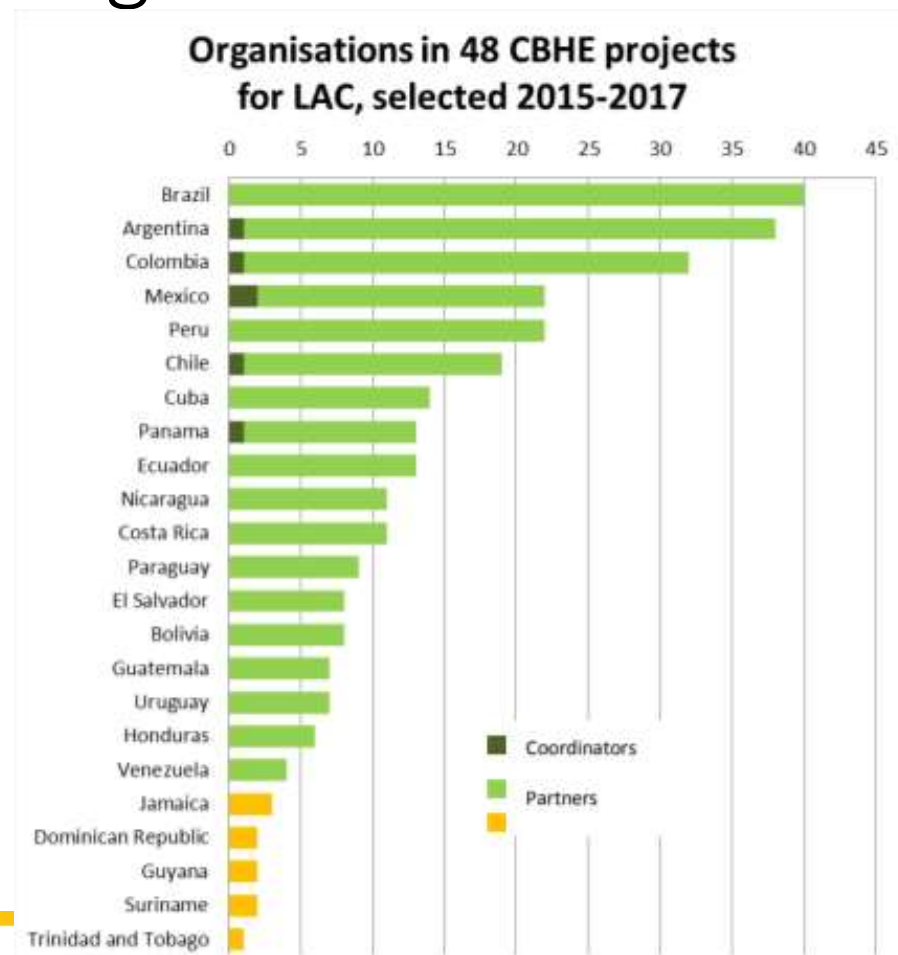
Selection results CBHE'2017

Stage	1 Western Balkans	2 Eastern Partn	3 South Med	4 Russian Federa-tion	6 Asia	7 Central Asia	8 Latin America	9 Iran, Iraq, Yemen	10 South Africa	11 ACP	Total*
Reception	135	243	196	108	120	121	98	12	12	50	833
Eligible >60 points	102	167	151	68	76	84	80	6	8	36	609
Sent to Consultation	36	58	74	34	76	37	30	5	8	23	295
Proposed for funding	16	17	37	11	45	14	15	3	4	7	149

Success rate in 2017	12%	7%	19%	10%	37,5%	19%	15%	25%	33%	14%	18%
Success rate in 2016	16,5%	10%	21%	20,5%	68%	19%	18%	50%	36%	17%	20%

Benchmarking CBHE involving Brazil

- From 2015 to 2017 calls Brazil was the Latin America + Caribe country with more HEI (40) in approved projects, being in 21 from 48 approved projects (more 4 in 2018 call from 13 approved)
- But not leader of any project, but other LA+caribe countries leads projects: Argentina (2), Colômbia (1), México (2), Chile (1); Panamá (1); Costa Rica (1)



CBHE Projects involving Brazil

Acronimo	Código	Tema do Projeto	Coordenador	IES brasileiras no projeto	Países(nº parceiros)
	561610	Social innovation	Glasgow Caledonian Univ. (UK)	UNIRIO, UFRJ	UK(2),DE(1), ES,BR(2),CO(3),CL(2),PA(2)
VISIR+	561735	Remote Labs	Politécnico do Porto (PT)	ABENGE, UFSC, IFSC, PUC-Rio	PT,SE,ES,AT,BR(4),AR(3)
ACACIA	561754	Inclusion to avoid drop out of students	Uni. Distrital Francisco Jose Caldas (CO)	UNESP, UFOPA	CO(3),PT,ES,RO,CL(2),BR(2),PE(2),NI(2)
	561807	Curriculum for Renewable Energies	Univ. Northumbria at Newcastle (UK)	UFBA, UFlitajubá	UK,ES,IT,BR(2),CU(2),CO(2)
CITYLABS	561836	Sustainable Cities	Univ. Antwerpen (BE)	UFSC, UFRJ	BE,DK,ES(2),IT,FR,BR(2),CO(2),AR(2),PE(2),MX(2),VE(2)
PONCHO	561843	Internationalization of Perpipheric Univ	Univ. Las Palmas Gran Canaria (ES)	UFCSPA,UFGD,UFG,UFGM,UFRP	ES,PT,FR,PL, BR(5),CO(3),BO(2),PY(2),UY(2),EC(2),PE(2),AR(3)
SOLA	561897	Acceleration of Spinoffs	Rede Univ. IbAm. Incubação Empresas	UECampinas, USP	ES(4),PT,IT,CO(2),BR(2)
LENSIN	561927	Sustainability	Politecnico de Milano (IT)	UFPE,UFRP	IT,FI,UK,NL,MX(2),BR(2),ZA(2),CN(2),IN(2)
CAMINOS	574023	Mobility	Observatório Relações EU-AL (ES)	ANDIFES,UEBA,UFSCarlos,UFRGS	ES(3),IT(2),PT,FR,DE(2), BR(4),CO(3),UY(2),AR(3),CL(4),EC(2)
ORACLE	574080	Equity Quality Obsevatory	Univ. Autonoma Barcelona (ES)	UNESP,Ubrasilia	ES,DK,PT,IT,AT, BR(2),UY(2),EC(2),CR(2),BO(2),PY(2),VE(2),CO(2), SV(2),CU(2),CL(2),PA(2),EC(2),MX(2),BO(2),NI(2),GT
Students4Change	547133	Social Entrepreneurship	ITESMonterrey (MX)	PUC-Rio,Ass.Bras.Educ.Assist.	MX(3),ES(2),PT,FR,DE,BR(2),CO(2),CR(2),CL(2)
CARE	574220	Climate	Univ. Pablo Olavide (ES)	UFABC, UFPA	ES(2),IT(3),NL,BR(2),CL(2),CO(2),UY,EC(2)
LAWEEda	573517	Electronic Thrash Management	Univ. Fuer Bodenkultur Wien (AT)	Ass.Cat., CoopPop.Amb,UNESp,UFRJ	AT,DE,UK,BR(4),NI(4)
	573572	Internationalization in Latin America	Universidad de Guadalajara (MX)	FAUBAI, UNESP, UFRJ	MX(2),IT,BE,DE,BR(3),UY(3),CO(3),CU(2)
INOVIA	573601	Agrofood	INESAgronomiquesMontpellier (FR)	UFGD,USP	FR(2),BE,PT,ES,BR(2),CR(2),BO(2)
LISTO	585676	Innovation and Entrepreneurship	UppSala Univ. (SE)	USP, UFPE, UFRGS	SE,NL,ES,BR(3),AR(2),UY
LAPASSION	585687	Soft Skills, Innovation, Multidisc. Co-creation	Politécnico do Porto (PT)	IFSUL,IFTM,IFG,IFMA,IFAM,CONIF	PT(2),ES(2),FI,BR(6),UY(2),CL(2)
	585739	Technoly and Innovation Master	Univ. Nacional Lujuan (AR)	USP, UFRN	AR(2),IT,PT,ES,FR,BR(2),PE(2)
SOLIDARIS	585762	Inclusive University	Univ. Sevilha (ES)	UPE, UEPB	ES,PT,IT,DE,BR(2),CL(2),AR(2)
ASACENT	585796	Automobile Industry and Sales	FH Joanneum Gesellschaft (AT)	USP,UFRJ	AT(2),DE,ES,BR(2),MX(2),AR(2)
RECMAT	586329	Academic Recognition of Degrees	Universidade do Porto (PT)	UNESP, UFRJ, UFRGS	PT,BE(2),ES,FR,BR(3),AR(2)

2- LAPASSION project description

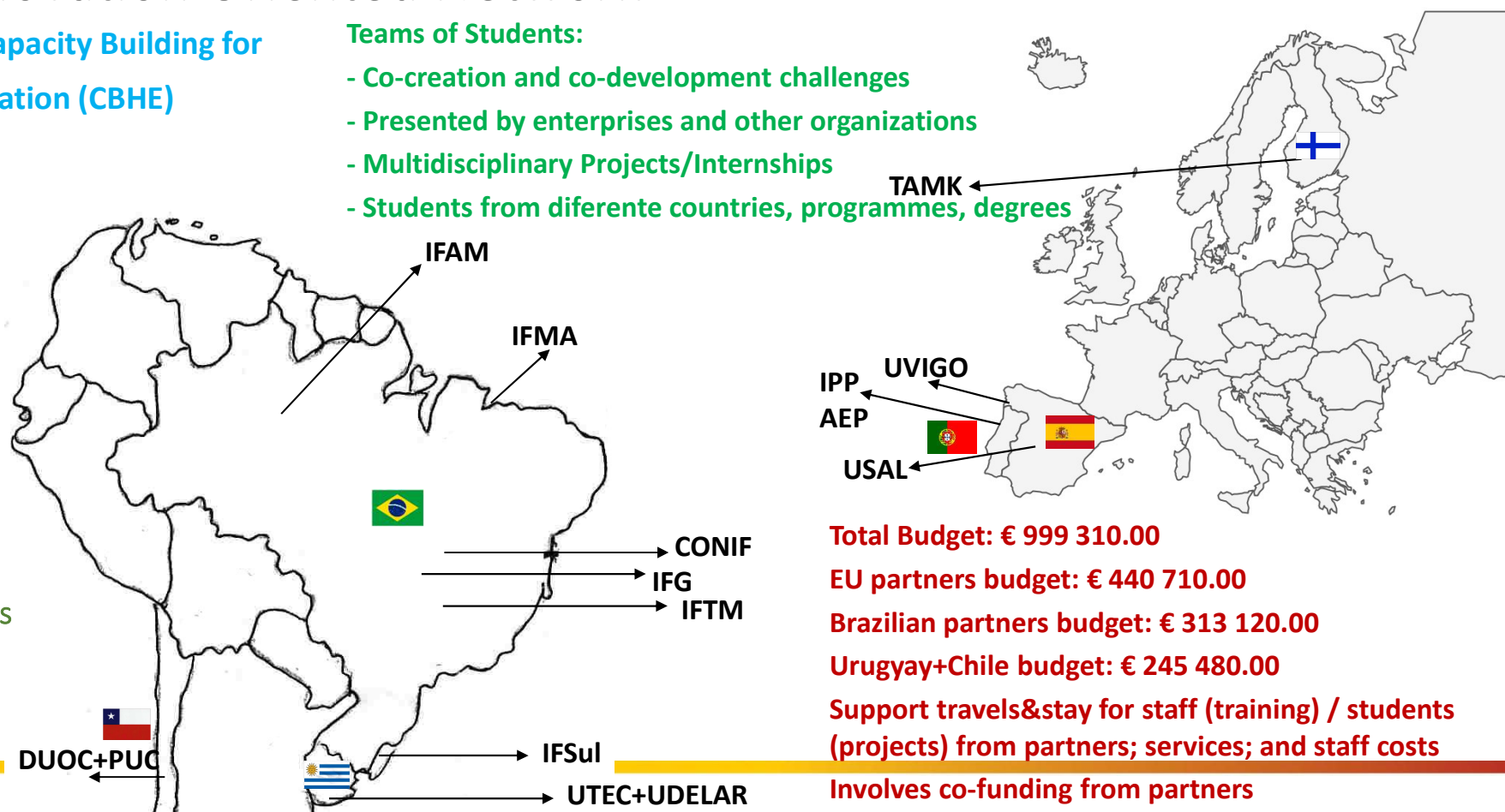
Carlos Ramos, ISEP-IPP/Portugal

LAPASSION - Latin-America Practices and Soft Skills for an Innovation Oriented Network

Erasmus+ Capacity Building for
Higher Education (CBHE)

Teams of Students:

- Co-creation and co-development challenges
- Presented by enterprises and other organizations
- Multidisciplinary Projects/Internships
- Students from different countries, programmes, degrees



Coordinator:
Carlos Ramos

Total Budget: € 999 310.00

EU partners budget: € 440 710.00

Brazilian partners budget: € 313 120.00

Uruguay+Chile budget: € 245 480.00

**Support travels&stay for staff (training) / students
(projects) from partners; services; and staff costs**

Involves co-funding from partners

LAPASSION partners

- Instituto Politécnico do Porto (IPP, Portugal)
- Tampere University of Applied Sciences (TAMK, Finland)
- Universidade de Vigo (UVIGO, Spain)
- Universidad de Salamanca (USAL, Spain)
- Instituto Federal Sul Riograndense (IFSUL, Brazil)
- Instituto Federal do Triângulo Mineiro (IFTM, Brazil)
- Instituto Federal de Goiás (IFG, Brazil)
- Instituto Federal do Maranhão (IFMA, Brazil)
- Instituto Federal do Amazonas (IFAM, Brazil)
- Universidad de la República de Uruguay (UDELAR, Uruguay)
- Universidade Técnica de Uruguay (UTEC, Uruguay)
- Fundación do Instituto Profissional (DUOC, Chile)
- Universidade Católica do Chile (PUC, Chile)
- Associação Empresarial de Portugal, Câmara de Comércio e Indústria (AEP, Portugal)
- Conselho dos Reitores dos Institutos Federais do Brasil (CONIF, Brazil)

Workpackages LAPASSION

Workpackage	WP Name
WP1	Multidisciplinary Projects Preparation Coordinators: DUOC+P.PORTO
WP2	Multidisciplinary Projects Development Coordinators: TAMK+IFTM
WP3	Quality Plan & Control Coordinators: UVIGO+UDELAR
WP4	Communication, Dissemination & Exploitation of Results Coordinators: CONIF+AEP
WP5	Management Coordinators: P.PORTO+IFG

Some activities before the first set of Students' Projects



Kickoff Management Meeting
João Pessoa, Brazil, November 2017



Training about CBHE Management
Brussels, January 2018



Second Management Meeting, Porto (Portugal)
+Pontevedra (Spain), Feb-Mar 2018



First Preparation (Training) Meeting, Porto (Portugal)+Pontevedra (Spain), Feb-Mar 2018



Some activities after the first set of Students' Projects and before the second set



Third Management Meeting
Tampere, Finland, September 2018



3rd Preparation Meeting (c) Montevideo +
Fray Bentos, Uruguay, November 2018



3rd Preparation Meeting (a) São Luís,
Brazil, November 2018



3rd Preparation Meeting (b) Uberaba,
Brazil, November 2018

Students in the Projects

Institution	Santiago 4-6/2018	São Luís 3-5/2019	Uberaba 3-5/2019	Montevid. 3-5/2019	Santiago 3-5/2020	Pelotas 3-5/2020	Goiânia 3-5/2020	Manaus 3-5/2020
IPP - Portugal	2	2	2	2	2	2	2	2
TAMK - Finland	2	2					2	2
UVIGO - Spain	2			2		2		
USAL - Spain	2		2		2			
IFSUL - Brazil	2			2		16		
IFTM - Brazil	2		16		2		2	
IFG - Brazil	2		2		2		20	
IFMA - Brazil	2	16						2
IFAM - Brazil	2	2						20
UDELAR - Uruguay	2	2		10		2		
UTEC - Uruguay	2		2	10		2		
DUOC - Chile	11			2	8		2	2
PUC - Chile	11			2	8		2	2
TOTAL FORA	22	8	8	10	8	8	10	10
TOTAL	44	24	24	30	24	24	30	30

Students involved – 230

Students in mobility – 84

Students from home institutions- 146

Multidisciplinary Teams



Subchallenge: Increase the use of
Santiago de Chile Park Network

At least:

- 2 countries
- 3 HEI
- 3 different areas



Subchallenge: How to improve HDI
in Maranhão by Tourism in São Luís

Selection of Students

- Each HEI needs to open a call for students
- Students from 3rd-5th year of the graduation or from Master, or even from a PhD Programme
- Areas of students can be defined (e.g. for LAPASSION@Santiago, IPP opened a call for students from Computing, Electronics, and Medical Computing and Instrumentation; IFTM selected students from Agronomy and Biology; PUC centered in students from Engineering and Design,...)
- In LAPASSION@Santiago it resulted in the selection of students from the following areas: ICT; Biomedical Engineering; Medical Computing and Instrumentation; Electronics&Automation; Mechanics&Mechatronics; Civil Eng.; Graphical Design& Industrial Design; Arts; Mathematics; Biology; Physiotherapy; Agriculture
- Good level of English
- Ask for CV plus some projects developed before (portfolio)
- Interviews (you need to be sure about the maturity and motivation of the students in this project)
- The fellowships are very good (support for travel based on distance plus 3010 € for a 10 weeks unique experience)



Promoting LAPASSION fellowships in IFTM



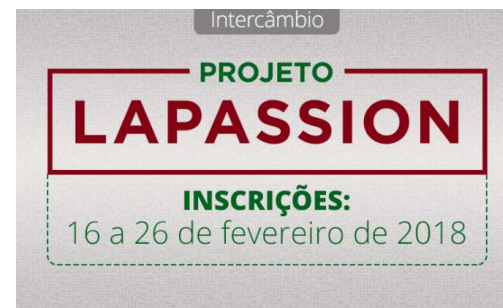
Rector from IFAM with the 2 students



Promoting LAPASSION fellowships in IFSUL



2 IPP students



Promoting LAPASSION fellowships in IFG



4 IFMA students in Chile

Questions for

1- Capacity Building for Higher Education -
An Erasmus+ Programme with possibility to
involve Brazilian partners

AND

2- LAPASSION project description

Carlos Ramos, ISEP-IPP/Portugal

3- LAPASSION project - the perspective from Europe and Finland

Tiina Koskiranta, TAMK/Finland

Benefits of connecting EU and Latin America

- Opportunity to divulgate some good practices from EU in Latin America (... and vice-versa)
 - TAMK was involved in “Professores para o Futuro” (Teachers for the Future) initiative from Brazil with Finland
 - Possibility to promote and share innovative initiatives (Proakatemia and Y-Kampus from TAMK)
 - DUOC Design Factory and Porto Design Factory are both from the Design Factory Global Network
 - Experience of IPP in Internships for Research
 - Good connection of UVIGO with Enterprises in Galicia
 - Incubation and Science & Technology Park in Salamanca
 - AEP connects Portuguese and Latin America Enterprises
 - Possibility to create connections (e.g. between startups)
 - ...



Does the future look like this?

LATIN AMERICA PRACTICES AND SOFT SKILLS FOR

LAPASSION
AN INNOVATION ORIENTED NETWORK

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Self-employed



Subcontractor



Start up-
entrepreneur



Remote worker



Light
entrepreneur



Social
entrepreneur



Team
entrepreneur



Part-time
entrepreneur

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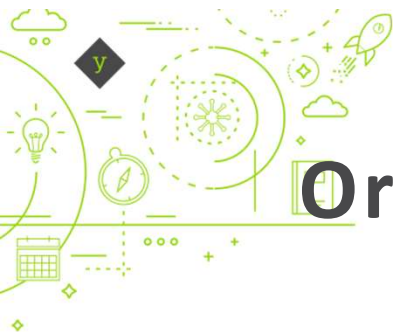
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Or this?



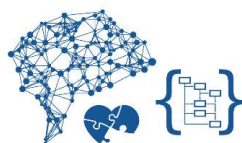
Top 10 skills

in 2020

1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Judgment and Decision Making
8. Service Orientation
9. Negotiation
10. Cognitive Flexibility

in 2015

1. Complex Problem Solving
2. Coordinating with Others
3. People Management
4. Critical Thinking
5. Negotiation
6. Quality Control
7. Service Orientation
8. Judgment and Decision Making
9. Active Listening
10. Creativity



Source: Future of Jobs Report, World Economic Forum

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How can we create exceptional learning experiences with focus on soft skills?

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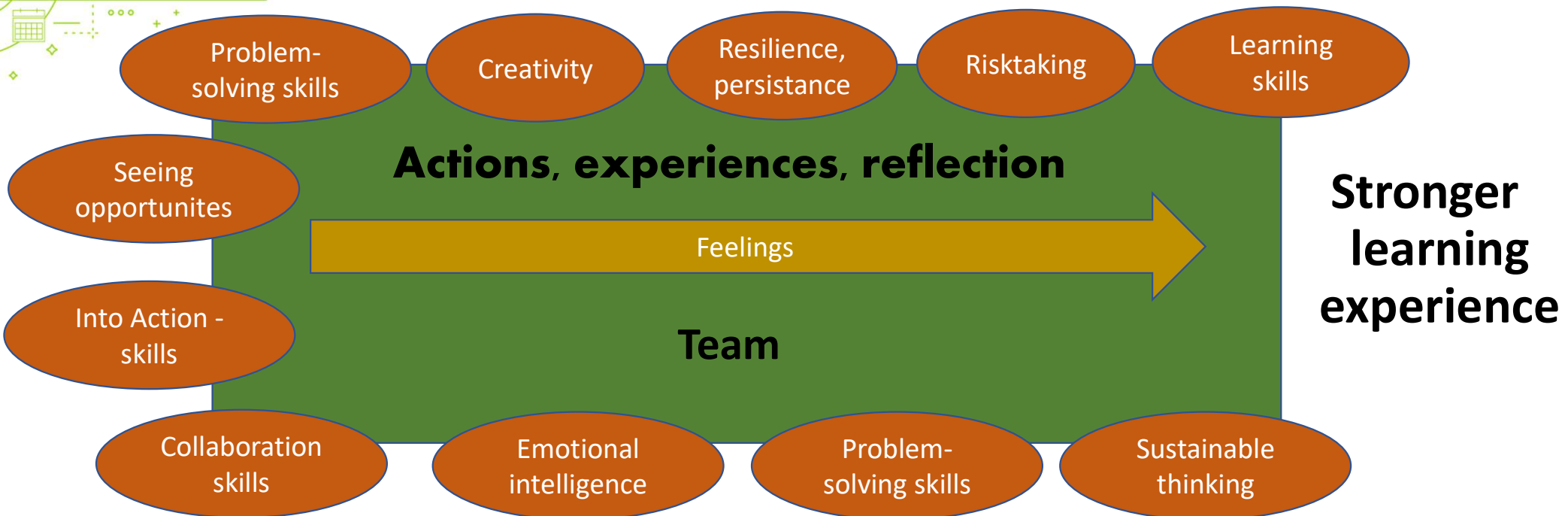
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Deep learning in entrepreneurship education

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Source: Arpiainen, Riitta-Liisa: PhD thesis 2019 & Entrecomp framework 2017

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PROACADEMY

FOR DEGREE STUDENTS



Degree in entrepreneurship and team leading



Students establish co-operative company and learn through that



Team entrepreneurship and team learning



Dialogue, doing, coaching and mentoring

Icons from Flaticon

Y-KAMPUS

FOR STUDENTS, TEACHERS, RESEARCHERS AND STAFF



Courses and services for all students and staff in Tampere3



Students make real life projects and solve assignments



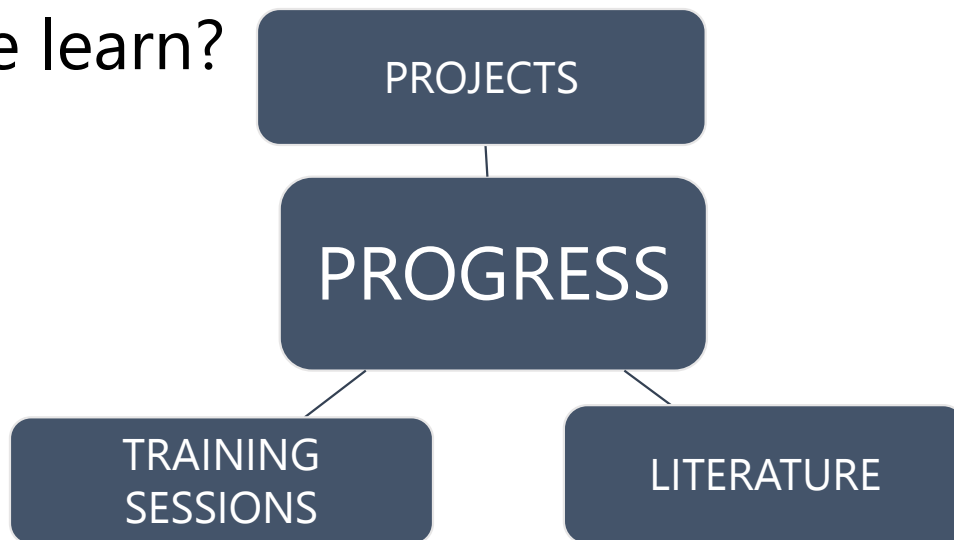
Growth entrepreneurship capabilities



Dialogue, doing, coaching and mentoring

ProAkademia

How we learn?



**ProAkademia is a BSc Programme from TAMK
in the area of Business and Administration
where students create and develop their enterprises
(real, not simulated)
It started in 1999 !**

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Joni and Sara Journey integrating ProAkademia and LAPASSION 2016 - 2018

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AUTUMN 2016

SARA

JONI



SPRING 2017

SARA

JONI



AUTUMN 2017

SARA

JONI

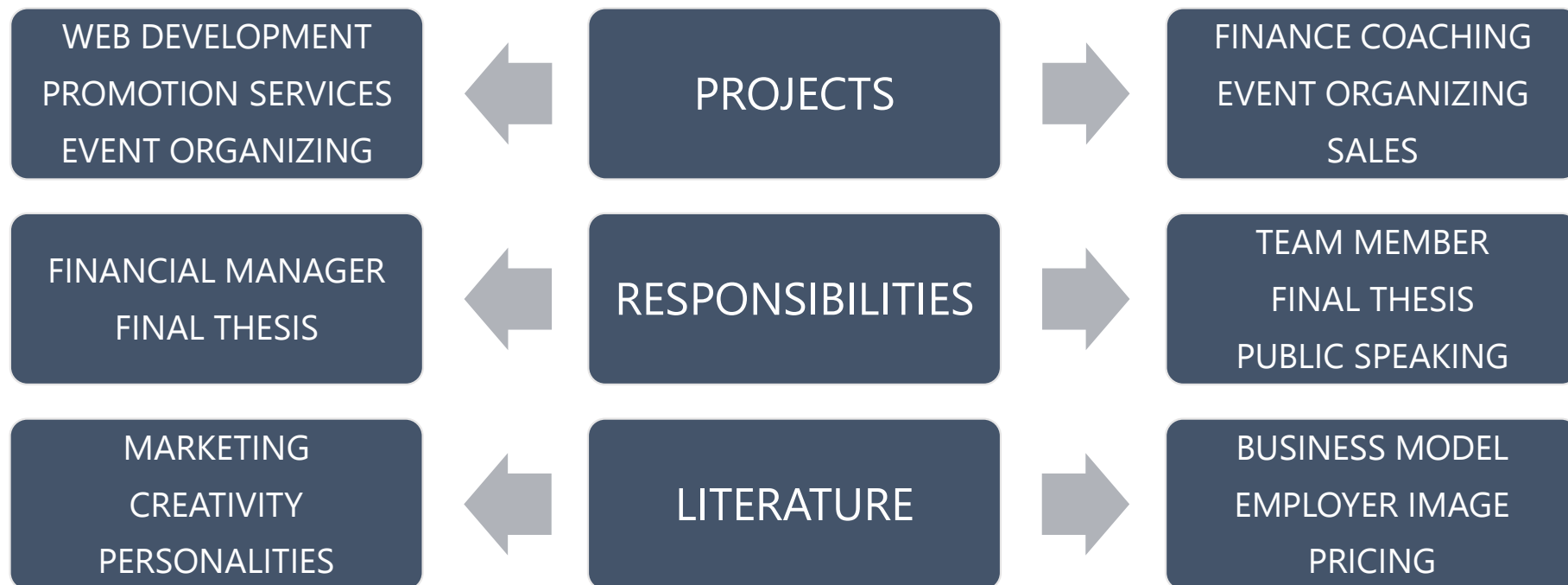


SPRING 2018

LAPASSION IN CHILE

SARA

JONI



AUTUMN 2018

SARA

JONI





What is Y-kampus?

- "Spin off" from Proakatemia (2012)
- Center for Entrepreneurship and Innovation
- One key player in startup ecosystem in Tampere (developing capabilities)
- Place to develop capabilities Entrepreneurs and Next Economy needs
- Platform and support to start up a company or develop a business
- For students, teachers, researchers and other university staff
- Encouraging people to find their own path and to take responsibility of it

In Y-kampus we believe that bringing people together to exchange ideas is the perfect ground for entrepreneurship and innovation.

y.kampus
Place to explore

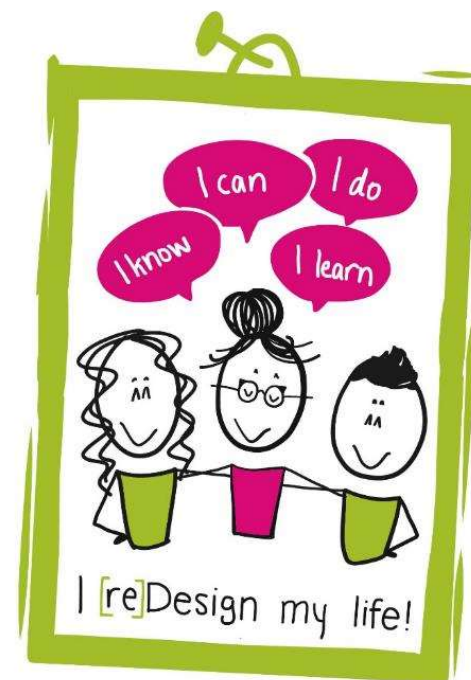


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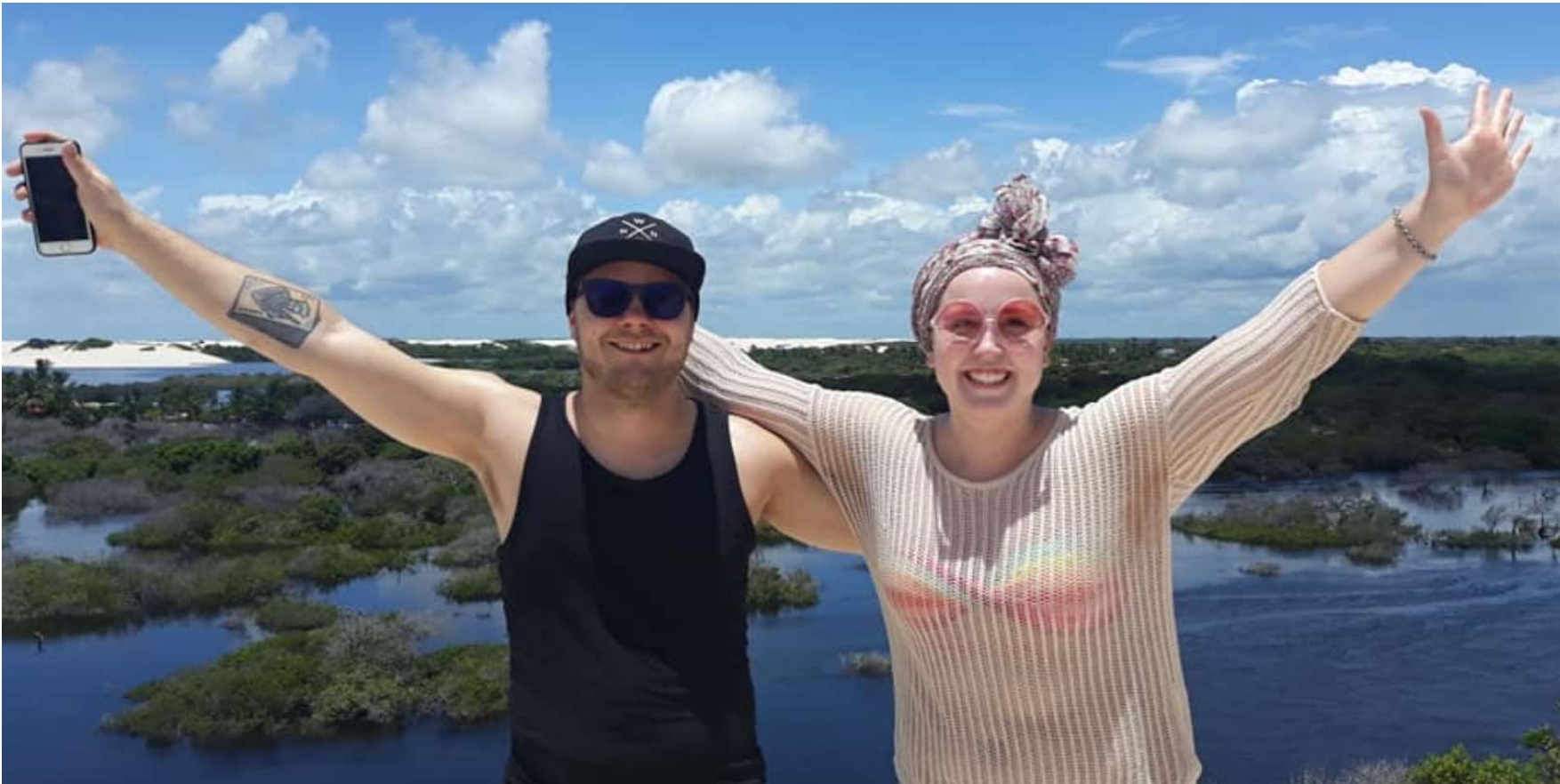
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Right now Petteri and Sanna, from TAMK, are developing their LAPASSION projects in São Luís (Maranhão, Brazil) related with the development of HDI

4- LAPASSION project - the perspective from Brazil and Latin America

Natilene Brito, IFMA/Brazil

Brazil in LAPASSION

- Brazilian partners involved in LAPASSION are from the Network of Federal Institutes, one by each region of Brazil:
 - North region: IFAM (Amazonas)
 - Northeast region: IFMA (Maranhão)
 - Center-West region: IFG (Goiás)
 - Southeast region: IFTM (Minas Gerais)
 - South Region: IFSul (Rio Grande do Sul)
- CONIF (the all network, involving all Rectors) is partner as well
- Goal of Brazilian partners in LAPASSION: to participate in a good practice from Europe and to run it in the 5 Federal Institutes of LAPASSION, then extend to other Federal Institutes and other institutions



REDITEC, the big event of Federal Institutes Management, with more than 1000 participants, is the good venue to promote LAPASSION
 João Pessoa, November 2017
 Búzios, September 2018
 ... and Florianópolis, September 2019



TAMK and IPP presenting their projects including LAPASSION at the Meeting of the MERCOSUL Ministries of Education
 Brasília, October 2017

Brazil in LAPASSION

- Extension of LAPASSION
 - When LAPASSION happens in one Federal Institute, other Federal Institutes of the same region can participate
 - IFPE (Pernambuco) and IFAM (Alagoas) have 1 student each in LAPASSION@SãoLuís
- Create the continuation of LAPASSION (sustainability after the end of the project in Oct. 2020) involving more Federal Institutes
 - Own Funding and funding from other partners (enterprises, governments, etc)



LAPASSION sustainability presented at CONIF Rectors Meeting
Brasília, February 2019

Chile in LAPASSION

- Chilean partners have already previous experience with some of the concepts adopted in LAPASSION
- DUOC Design Factory is member of the Design Factory Global Network
- PUC Di-Lab (Engineering Design Sector from the Faculty of Engineering of the Catholic University of Chile) has already experience in Design Thinking methodology
- Both institutions have experience with international students, but not with the amount and diversity provided by LAPASSION@Santiago
- Excellent interaction between the 2 Chilean partners
- The experience of Chilean Partners was importante for training of Brazilian coaches and Staff

Uruguay in LAPASSION

- Two very different HEI of Uruguay participate in LAPASSION
- UDELAR is a traditional and experienced institution, and participates in many EU projects
- Their experience in international projects is more oriented to Research
- On the other hand, UTEC is a new University, oriented to the practice
- The cooperation between both institutions in LAPASSION@Uruguay is running well
- The projects are connecting students with Professors and Researchers from both institutions

5- LAPASSION@Santiago - the first set of Multidisciplinary Projects for Students

Carlos Ramos, ISEP-IPP/Portugal



lapassion @ santiago de chile

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LAPASSION@santiago

10-week experience

Students from 13 HEI

6 Countries

39 students

- 16 from Chile
- 23 from other countries

+ 10 different areas

6 groups, diversity

1 Open Challenge

6 sub-challenges, counterparts

LATIN AMERICA PRACTICES AND SOFT SKILLS FOR

LAPASSION

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multidisciplinary
international
teams need
to “share”
something





we defined
a culture of
“belonging” to
lapassion



where they
share a
process

LATIN AMERICA PRACTICES AND SOFT SKILLS FOR

LAPASSION



Students in an activity to establish
connections of interest among
themselves

DEFINITION OF THE CHALLENGE



“How to improve the conditions for Aging Populations”

It's a **global issue**, where we can connect different specific counterparts in the areas of civic engagement, health, mobility, etc. After the definition of the main topic, we defined sub-topics.

We invited counterparts in the areas of health, technology, transportation, recreation, to define the sub-challenges.

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STAKEHOLDERS

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Counterparts



Team 1: SMART CITIES MTT

To improve older
travelers' experience in
public transportation.

Team 2: FUNDACIÓN OPORTUNIDAD MAYOR

To maximize social interaction
for the elderly, reducing the risk of
social isolation or loneliness.

TEAM 3: FUNDACIÓN OPORTUNIDAD MAYOR

Using technology
to optimize longevity.

Team 4: CIGIDEN

Urban resilience and aging
population: How to incorporate
the elders in the design and
execution of prevention
programs for the effects of
disasters

Team 5: PARQUEMET

To understand and propose a
system or solution that
increases the use of this
network by the elderly

TEAM 6: CIGIDEN

Propose interactions and
digital services to increase
the intelligence of the city
thanks to the elderly.

and a common complex challenge



Team #6

Antonio Skillicorn, Civil Engineering, PUC-Chile

Claudia Perez, Graphical Design, DuocUC-Chile

Eduardo Vieira, Medical Computing&Instrumentation, IPP-Portugal

Jaqueline Paula, Design, IFSUL-Brazil

Juan Gonzalez, Physiotherapy, PUC-Chile

Julyana Pereira, Control&Automation Eng., IFG-Brazil

Counterpart: Center for the Study of Natural Disasters - CIGIDEN

Challenge: Improving conditions for Aging Populations

Sub-challenge: Propose interactions and digital services to increase the intelligence of the city thanks to the elderly

and a common complex challenge



Challenge: Improving conditions for Aging Populations

Sub-challenge: Use technology to optimize longevity

Team #3

Ana Oliveira, Medical Computing&Instrumentation, IPP-Portugal

Jesus Ponce, Art & Humanities, PUC-Chile

José Tomas Marchant, Industrial Design, DuocUC-Chile

Luciano Genz, Biomedical Eng., UTEC-Uruguay

Natália de Oliveira Martins, Mechanical Eng., IFSUL-Brazil

Paola Cortez, Industrial Design, DuocUC-Chile

Counterpart: Pablo Pizarro, Fundacion Oportunidad Mayor

Graphical Design



Sofia Tapia_DUOC

Business Administration



Sara Kauppinen_TAMK

Mecatronics



T2 Mateo Olivera_UTEC

Electronics



Jorge Vasconcellos_IFAM

Industrial Design



Daniela Rodriguez_DUOC

Engineering & Design



Bernardita Gonzalez_PUC

that they face
as a **team**

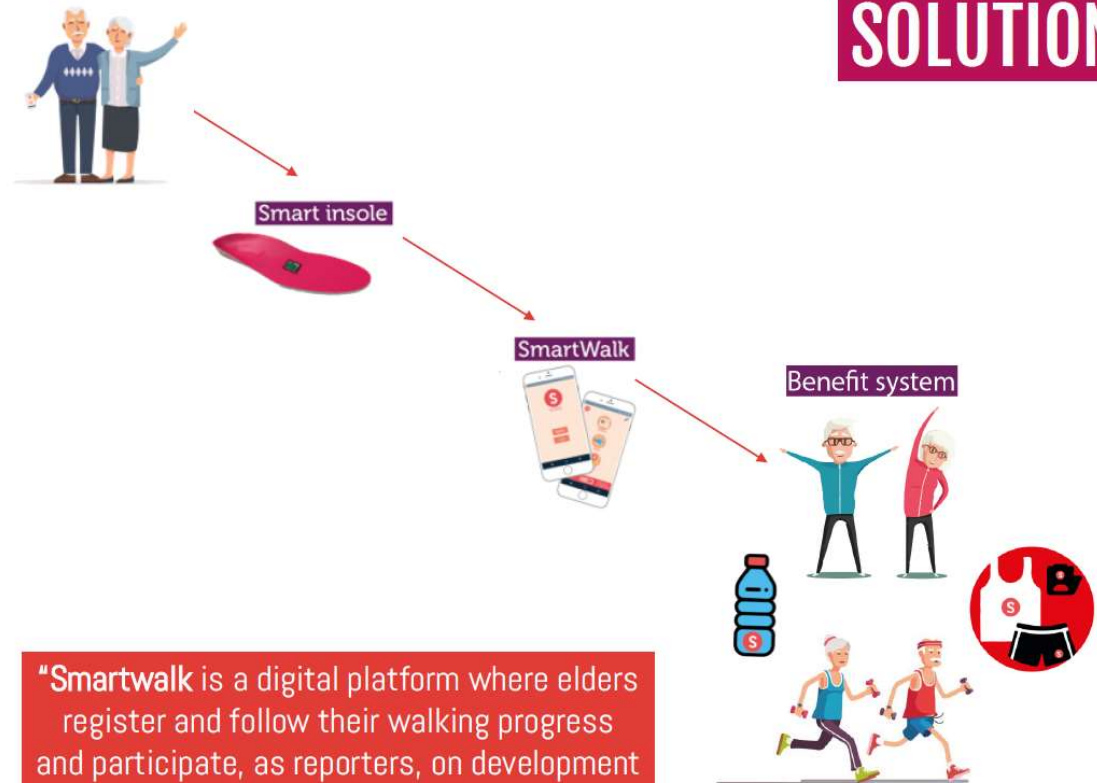


Team 1

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LAPASSION
 AN INNOVATION ORIENTED NETWORK

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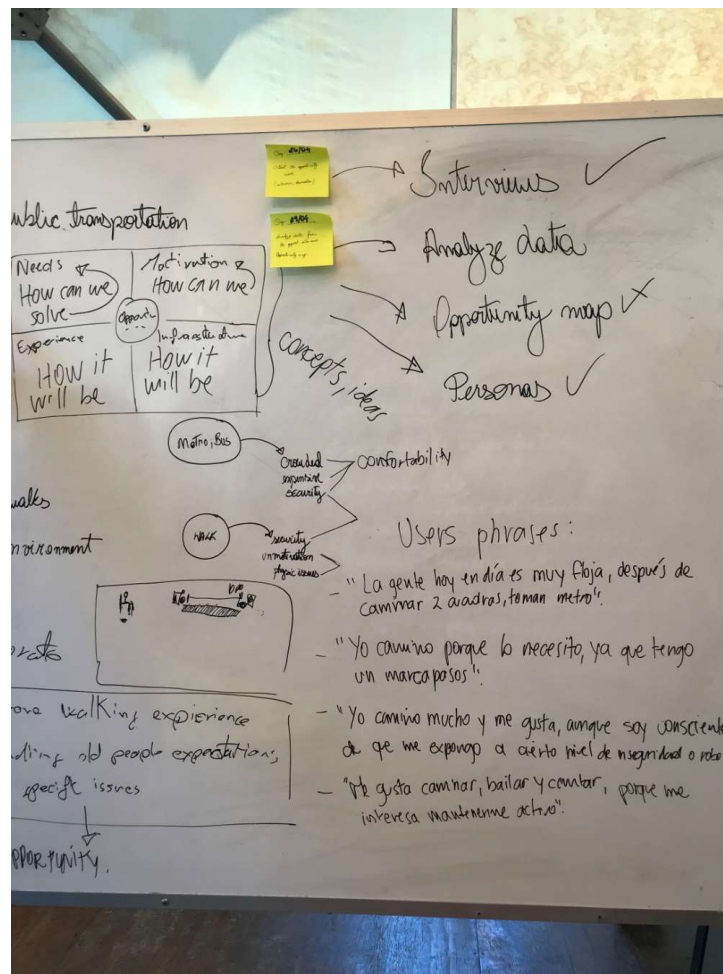
SOLUTION



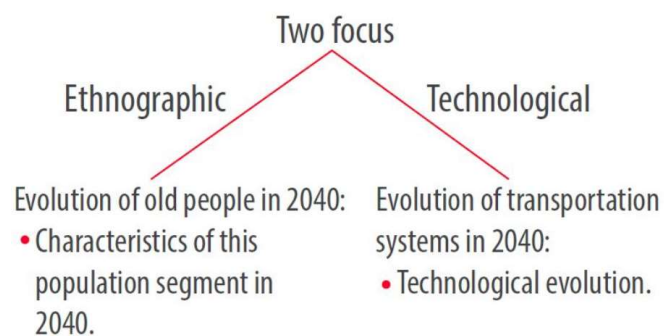
"Smartwalk is a digital platform where elders register and follow their walking progress and participate, as reporters, on development of their city in a collaborative way".



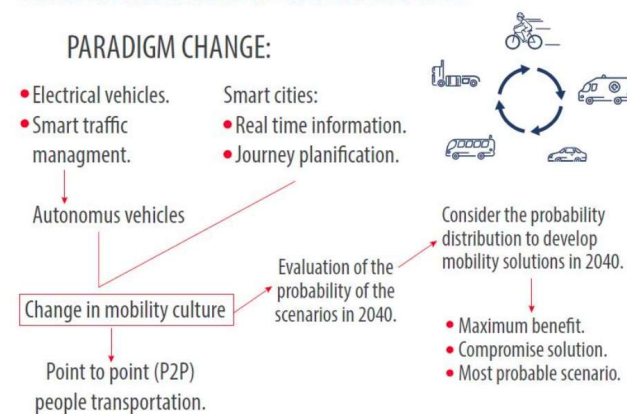
Breakfast to receive ideas – week 3



PROBLEM: OLD PEOPLE MOVILITY IN PUBLIC TRANSPORTATION 2040



TECHNOLOGICAL EVOLUTION



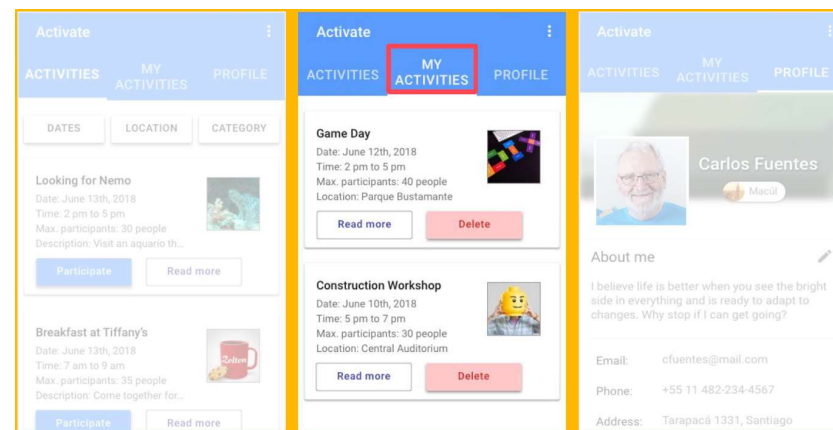
Possible opportunities:

- 1) Reward system to motivate people to walk
- 2) Personal routes planner using a collaborative platform integrated with IoT home devices.
- 3) Digital device to program walks, calibrating physical effort intensity in accordance with the individual healthy conditions and connected with emergency services

Team 2



Create a platform that shows activities to elders,
aiming to create in them a habit of social engagement
before retirement, so as not to lose their work
connections and make new ones





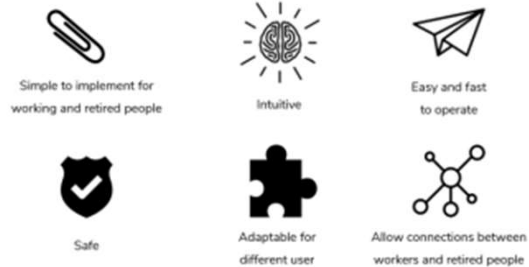
A class with Constanza – how to sketch



A cardsorting game for interacting with elderly people



SOLUTION'S REQUIREMENTS





Team 3

49 INTERVIEWS

17 HOURS OF
OBSERVATION

2 WORKSHOPS

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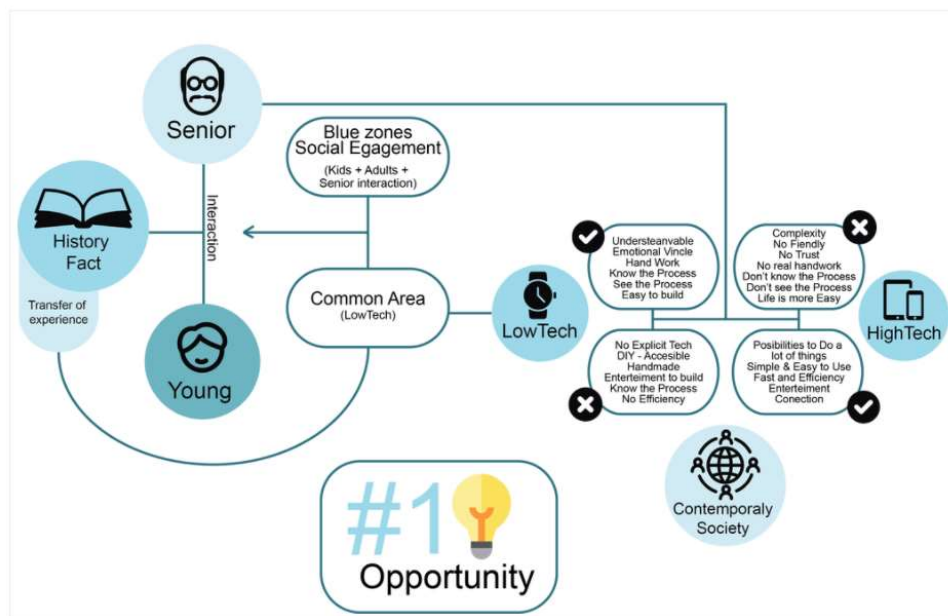


“Create a collection of
interactive books to
introduce smart devices to
seniors”

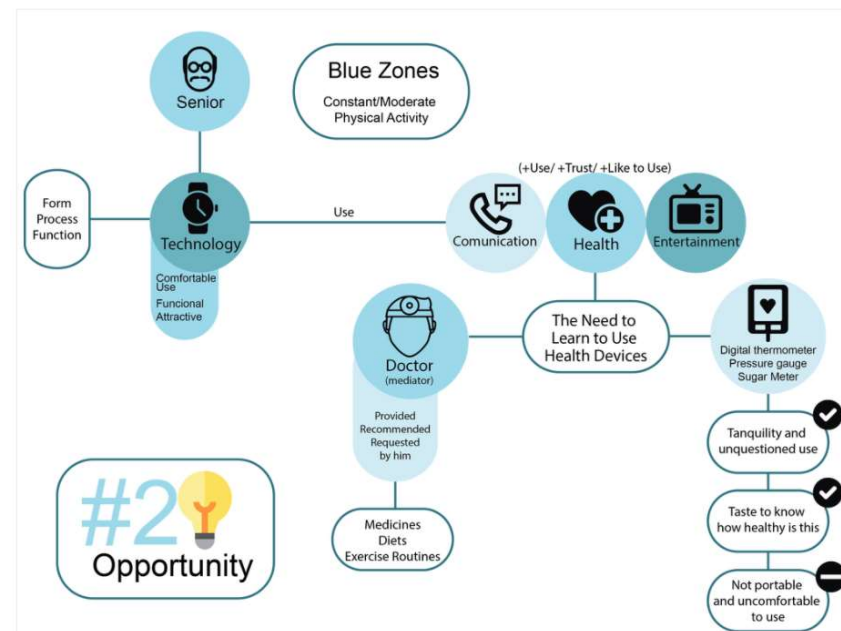


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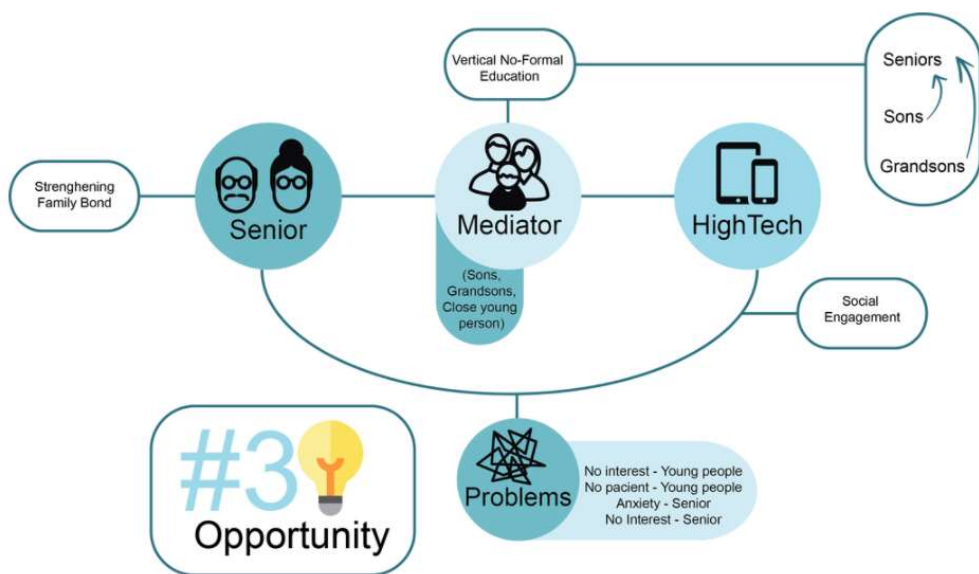
" CREATION OF AN INTERACTIVE SPACE USING LOW TECHNOLOGY TO OPTIMIZE THE INTERACTION BETWEEN ELDERLIES AND THE SOCIETY. "



" CREATION OF A METHOD/TOOL THAT ALLOWS THE USER TO TRACK HIS HEALTH DATA AND KEEP IT IN RECORD. "



“GENERATE A SYSTEM TO CULTIVATE THE VERTICAL METHOD OF TEACHING, USING A SIMPLIFIED, FRIENDLY AND ATTRACTIVE METHOD – TO BE USED FOR ELDERLIES AND YOUNGS AS WELL”.



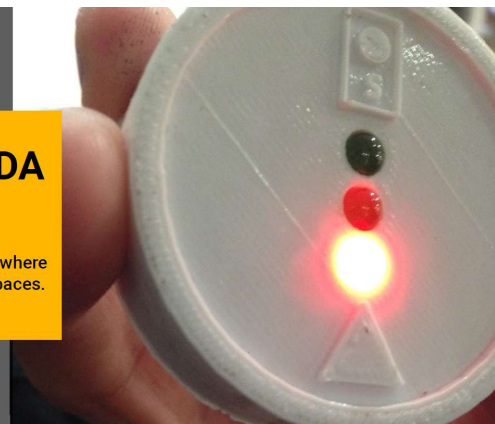
Team 4



Solution

COORDENADA SEGURA

Compass that reminds you where
is a safety zone in public spaces.



Daily life In case of emergency

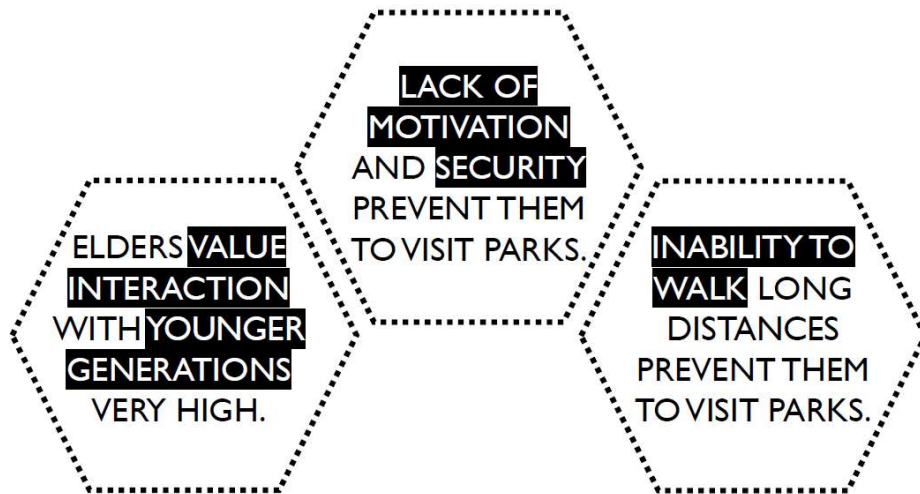




Presenting Opportunities



Team 5

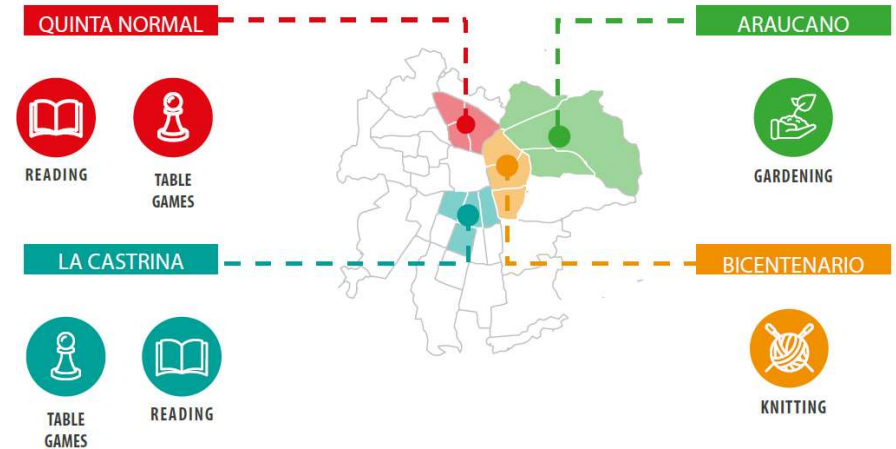


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"UNDERSTAND AND PROPOSE A SYSTEM OR SOLUTION THAT INCREASES THE USE OF URBAN PARK NETWORK BY ELDERLY."



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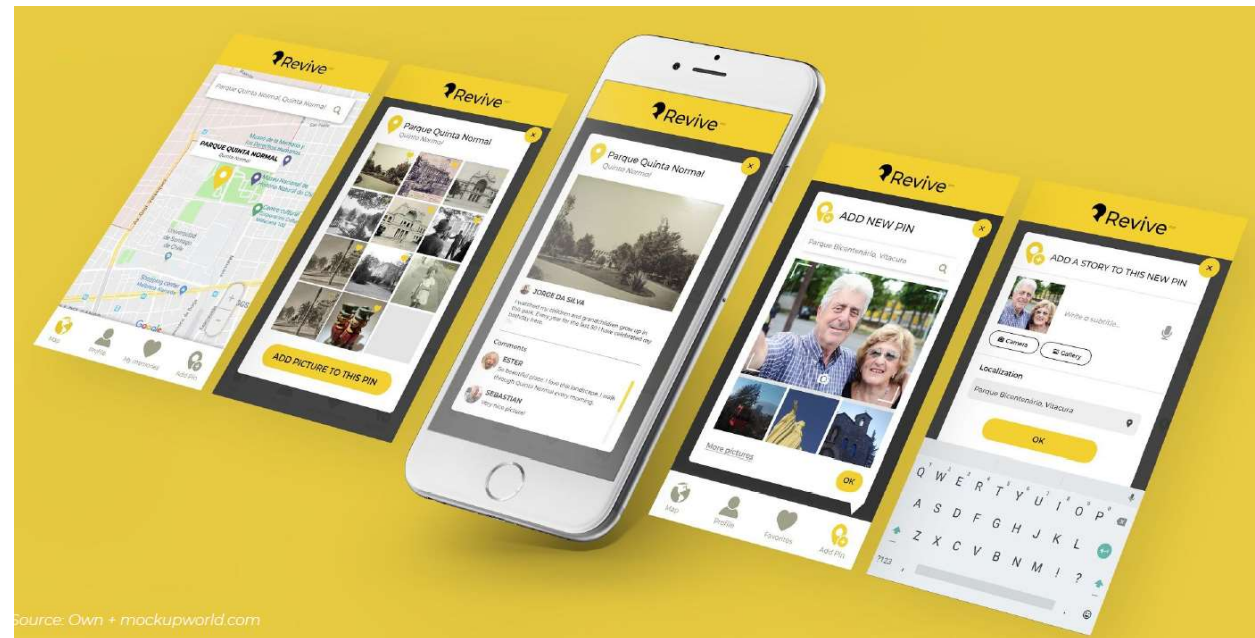


Team 6

LATIN AMERICA PRACTICES AND SOFT SKILLS FOR

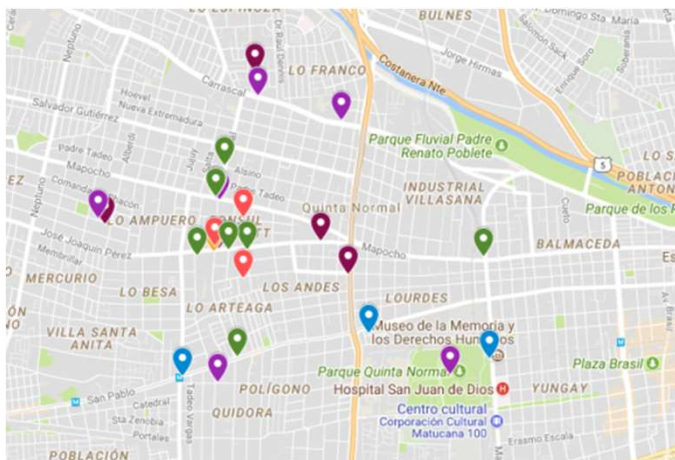
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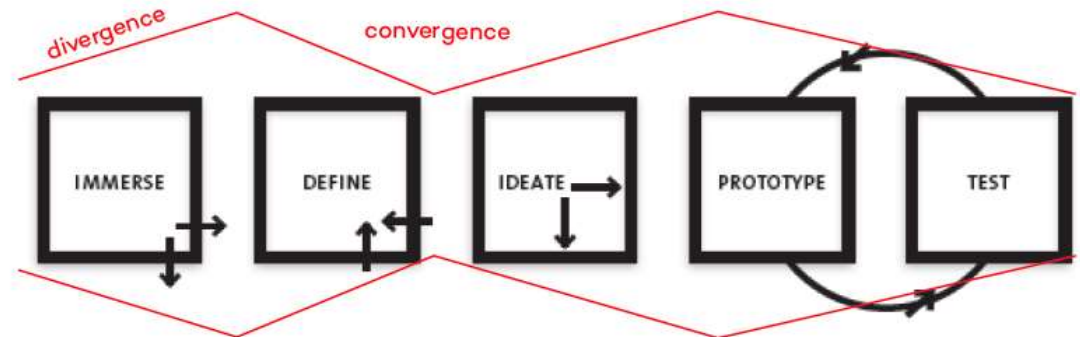
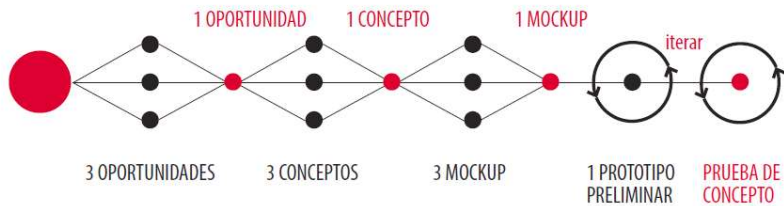
Source: Own + mockupworld.com

A **platform** that allows elderly to upload meaningful historical **photos** and **experiences** into **geographic pins** on a interactive map for the **educational and recreational** use of other city citizens



Where elderly people like to go

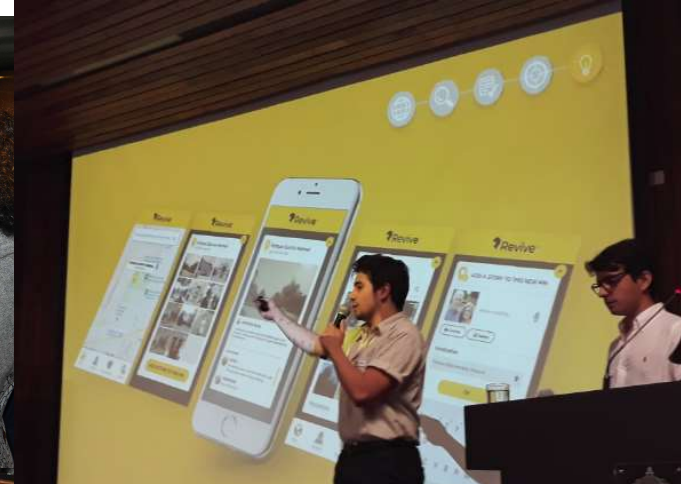


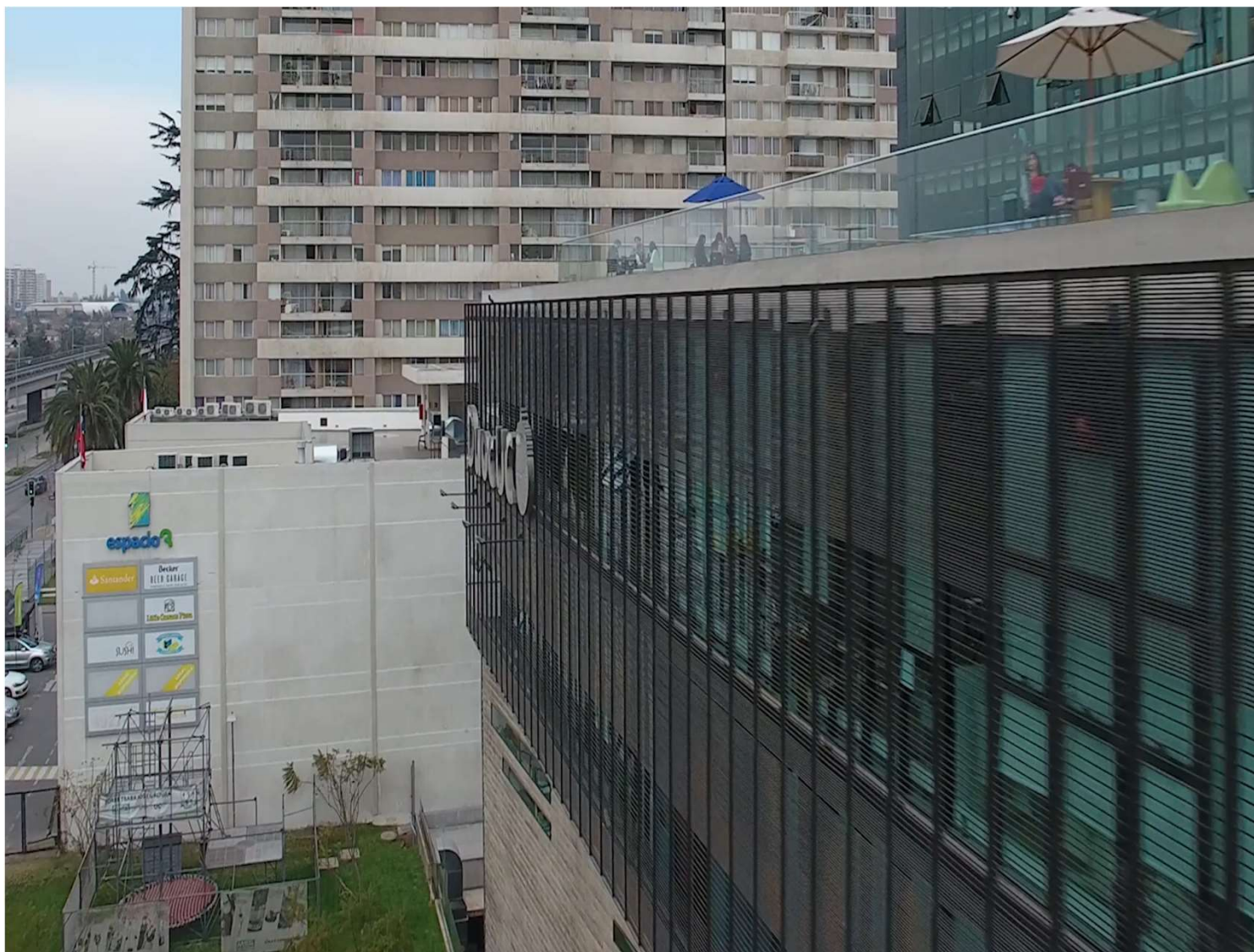


The used Approach

- Warm up
- Open challenge
- Groups with diversity
- Stakeholders, Counterparts and Sub-challenges
- Contact possible users
- 3 opportunities (alternative) and ideas
- Select one
- Mockup, Prototype, and test
- Pitch on Demo Day

3 OPPORTUNITIES			1 OPPORTUNITY	
Week 1 welcome & introduction workshop	Week 2 research + fieldwork (interviews & observation)	Week 3 research + fieldwork (interviews & observation)	Week 4 research + fieldwork (interviews & observation)	Week 5 focused field research (interviews & observation)
Week 6 grand deliverable + mid-term presentation	Week 7 idea improvement + initial testing	Week 8 ideation workshop + idea development	Week 9 internal grand deliverables final	Week 10 grand deliverable final demoday
1 IDEA	1 SOLUTION MOCKUP		1 IDEA	FINAL PROPOSAL





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- Questions for
- 3- LAPASSION project - the perspective from Europe
and Finland
AND
- 4- LAPASSION project - the perspective from Brazil and
Latin America
AND
- 5- LAPASSION@Santiago - the first set of
Multidisciplinary Projects for Students

Tiina Koskiranta, TAMK/Finland; **Natilene Brito**, IFMA/Brazil;
Carlos Ramos, ISEP-IPP/Portugal

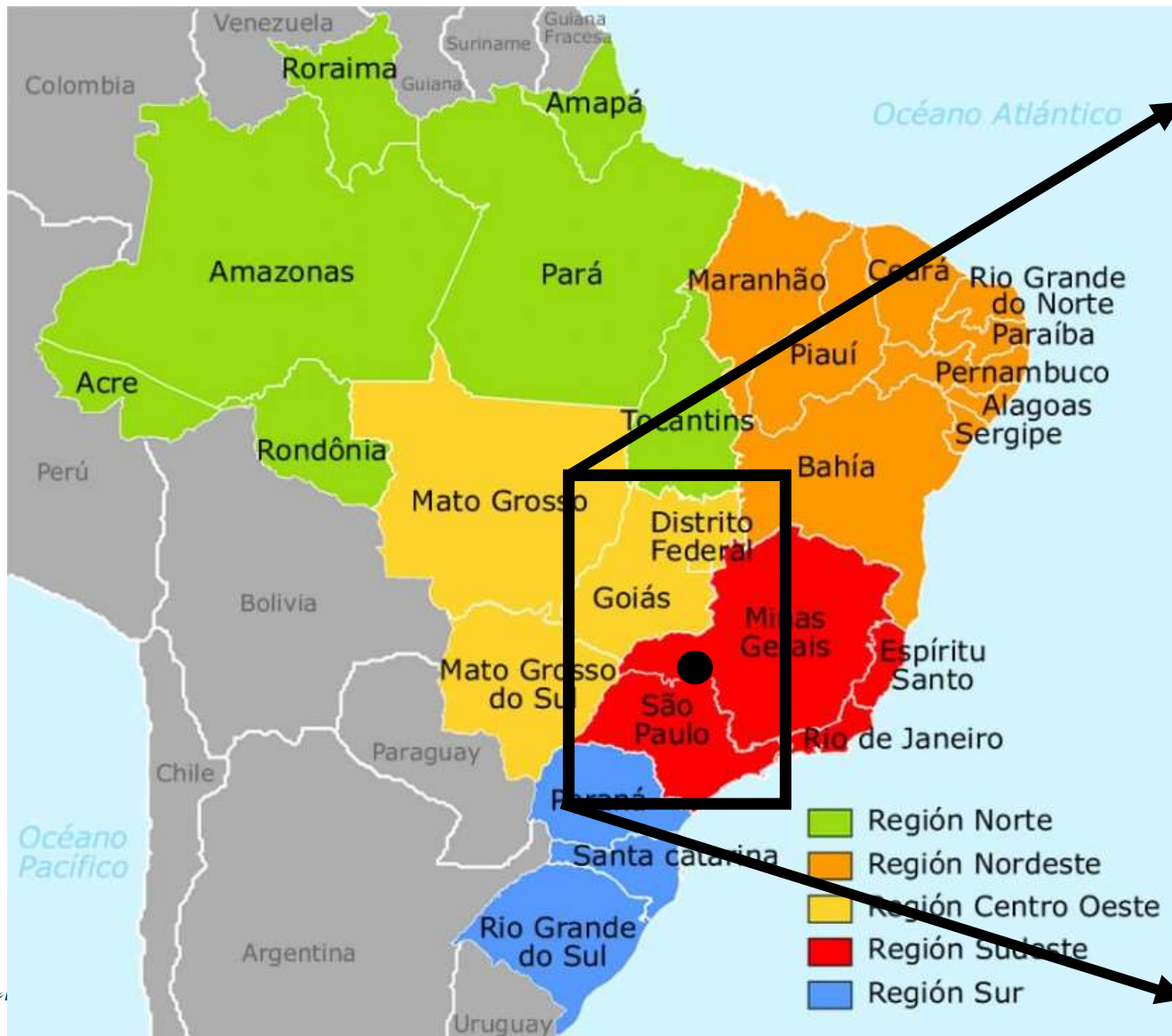
6- LAPASSION@Uberaba - Multidisciplinary Projects for the Challenge "Food for the Future"

Juliana Alves, IFTM/Brazil



FOOD FOR THE FUTURE





INSTITUTIONS

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HOST (16):



GUESTS (8):







2 Groups – 8 professors – 2 Companies





2 Groups – 8 professors – 2 Companies



Some Activities during the project




<https://lapassionsolution.wordpress.com/>

← → ↻ <https://lapassionsolution.wordpress.com/>  

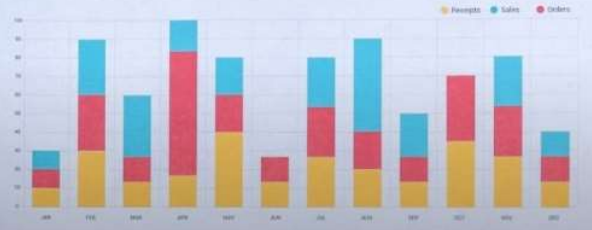
Create your website at WordPress.com [Get started](#)

#lapassionsolution TEAM WHAT ARE WE DOING? CONTACT




food
for
the future
lapassion solution

Our company



Business Items



Close and accept

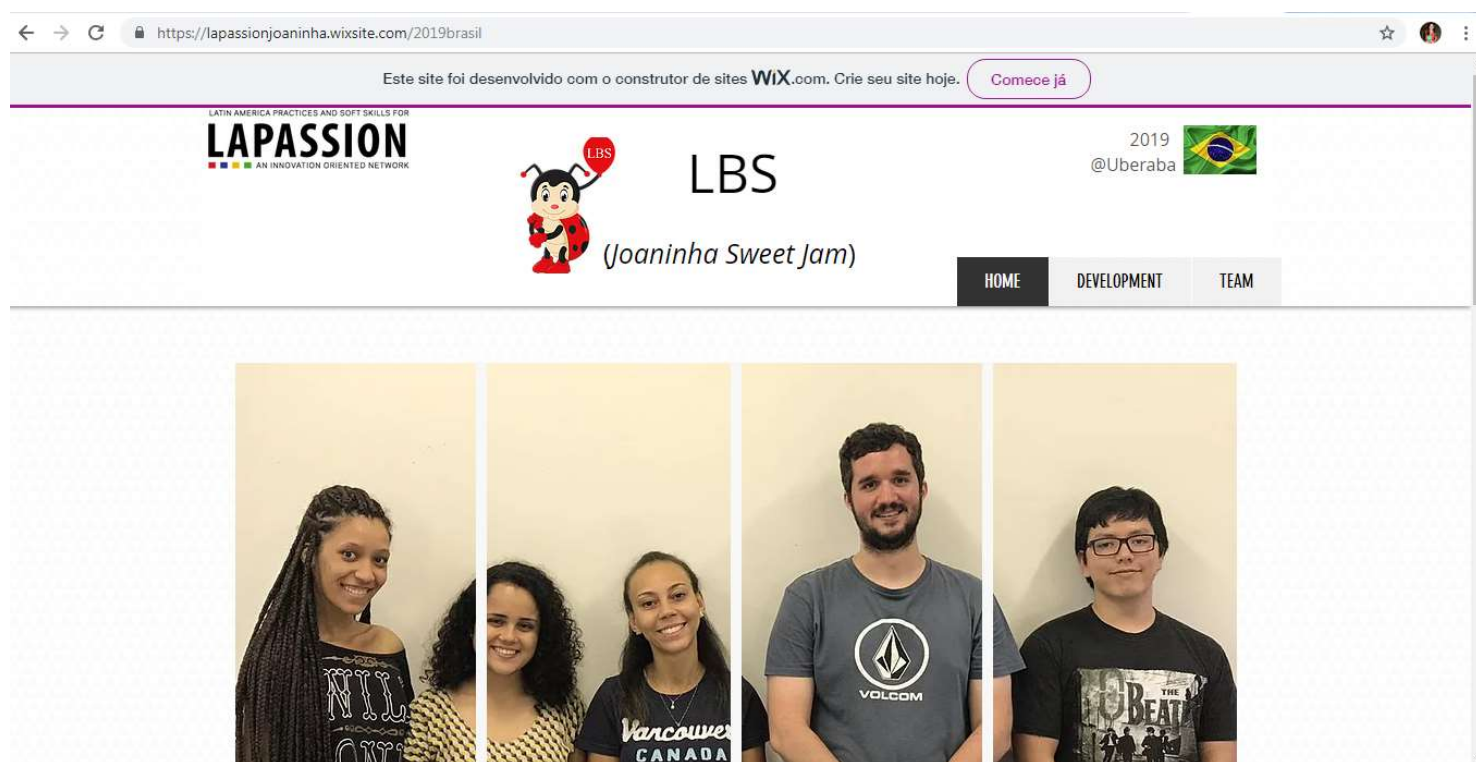
Privacy & Cookies: This site uses cookies. By continuing to use this website, you agree to their use.
To find out more, including how to control cookies, see here: [Cookie Policy](#)

FOURTH WEEK THIRD WEEK

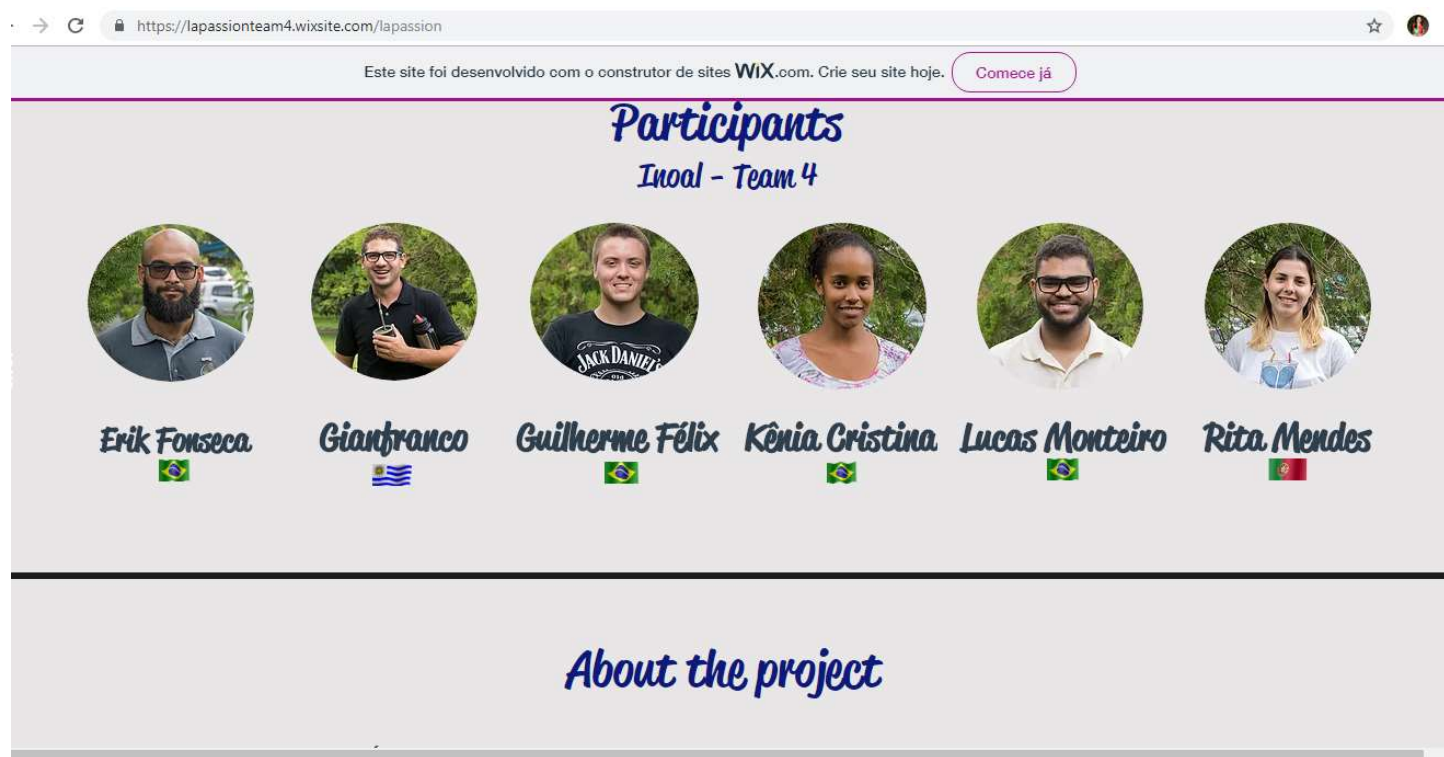
<https://lapassionbrasil.wixsite.com/porbraes>



<https://lapassionjoaninha.wixsite.com/2019brasil>



<https://lapassionteam4.wixsite.com/lapassion>



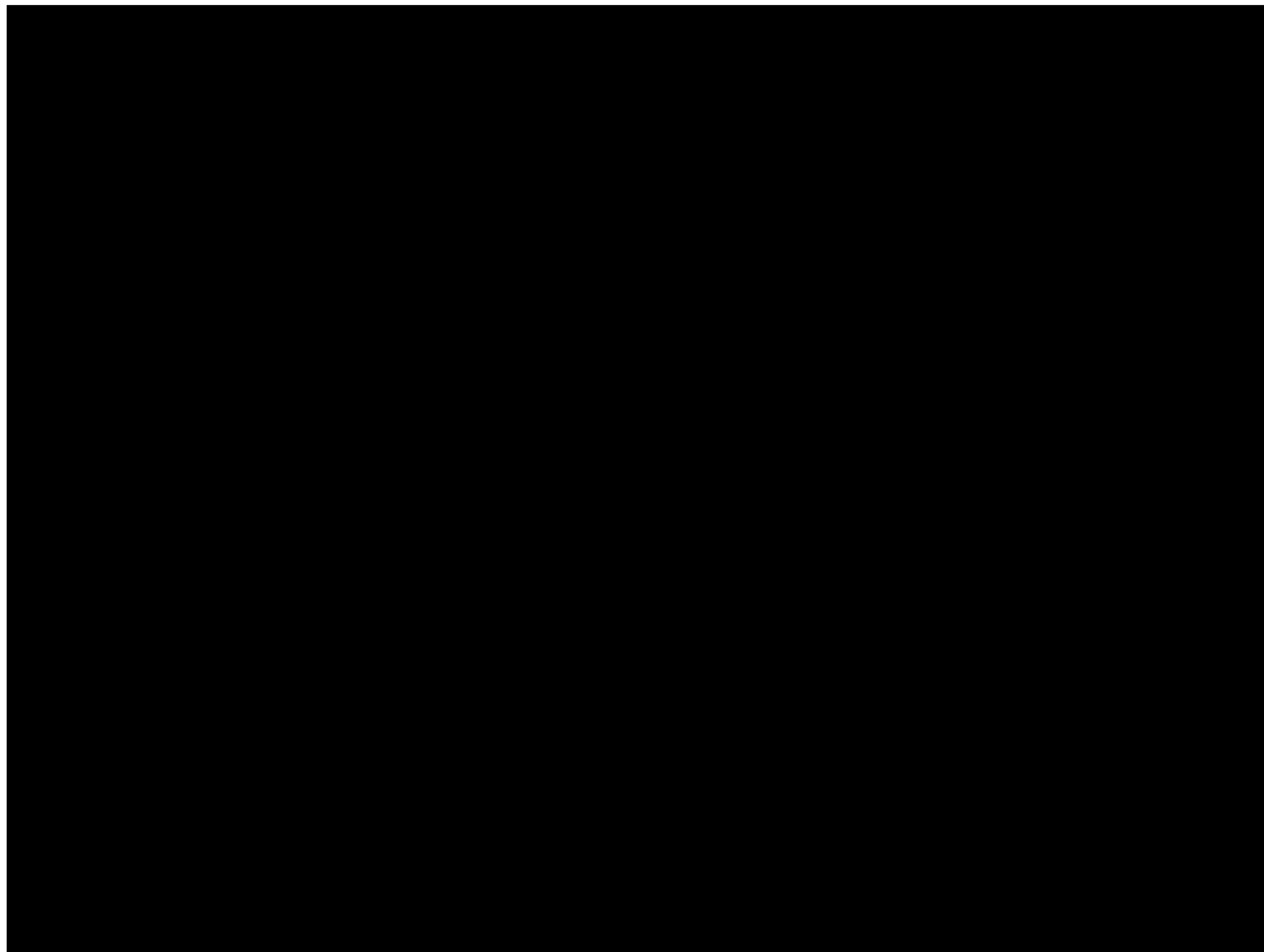
LATIN AMERICA PRACTICES AND SOFT SKILLS FOR

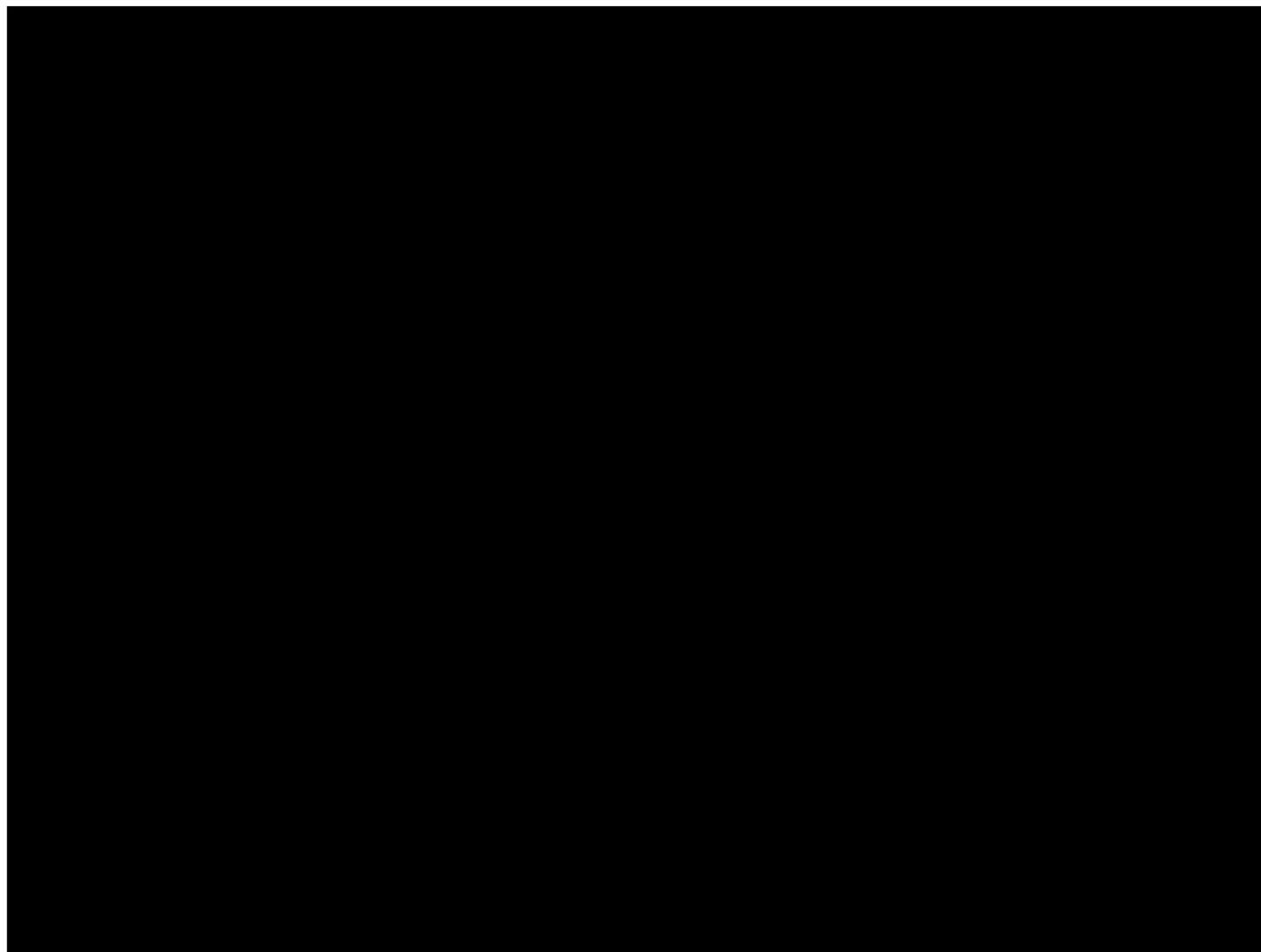
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OFFICIAL VIDEO





7- LAPASSION@SãoLuís - Multidisciplinary Projects for the Challenge "How to improve the HDI of Maranhão"

Natilene Brito & Virgínia Freire, IFMA/Brazil



LAPASSION / Program +IDH (+Human Development Index)

Subchallenges:

- a) To improve tourism experience for increasing economic growth of Santo Amaro
- b) To improve tourism experience for increasing economic growth of São Luís
- c) To improve the access to basic needs in São Luís
- d) To improve potable water quality for people in Santo Amaro
- e) To propose digital services for helping women at risk situations in São Luís
- f) Proposal for helping women at risk situations in Santo Amaro



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Strategic Contribution of the Project

1. Strengthen and expand programs and projects focused on local arrangements
2. Expand and integrate teaching, research and extension
3. Provide an environment of interaction between the academic environment and similar companies, industries and partners, aiming for economic and financial partnerships for IFMA and its researchers
4. Stimulate the development and registration of intellectual property (patents, computer programs, integrated circuit designs, cultivars, etc.) as well as their use to obtain economic and financial results for the institution

Major Services

- **A.** Consulting in Design Thinking
- **B.** Implementation of Research Projects, Development and Innovation (R&D+i)
- **C.** Software Factory
- **D.** Course offerings in methodologies and technologies

Coaching in Design Thinking



Software Factory



Desenvolvimento
de Sistemas

Systems Development



Foco no negócio

Focus on Business



Concentração na
atividade principal

Concentration on core business



Segurança da
Informação

Information Security



Inovação

Innovation



Desenvolvimento
AGILE

AGILE Development

Software Factory

• Major areas of expertise:

- Development of Computational Systems (Web, Mobile, among others)
- Development of Games (Unity Platform)
- Software Engineering and Agile Development
- Process Gamification
- Artificial Intelligence Applied to Optimization
- Human Computer Interaction
- Image processing
- Virtual and Augmented Reality
- Robotics
- Mobile Systems (ReactNative)
- Geographic Information Systems



Desenvolvimento
de Sistemas

Systems Development

Course Offerings

- Coding Workshop (ECC)
- Apple Ecosystem
- Apps Development
- Gamification
- Design Thinking

Factory Environments

- [Inovaifma.com](https://www.inovaifma.com) Platform
- Itinerant Prototyping Laboratory
- Video: <https://www.youtube.com/watch?v=KFLOAeMU9D4>
- Laboratory at Monte Castelo *Campus*
- It is intended the accreditation of this laboratory as an Apple iOS Development Center at IFMA

Factory Environments

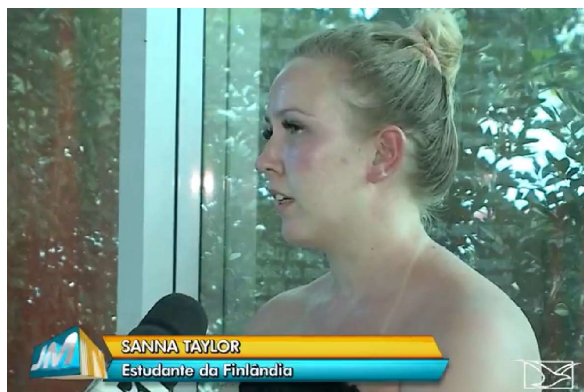


Students are grouped in multidisciplinary and multicultural teams, and receive Sub-challenges (Tourism; Woman Protection; Infrastructures; Water Quality)





Maranhão Governor Flávio Dino received LAPASSION students and Professors in Palácio dos Leões



TV Difusora/SBT and TV Mirante/Globo presented news about LAPASSION



Project LAPASSION - Team 1
"To improve tourism experience for increasing economic growth of Santo Amaro"

TO LOCALS

- How do you feel living in Santo Amaro?
- What do you think about tourism?
- Does there anyone speak english?
- What is your opinion about infrastructure of the city? (Example hospitals and schools)
- What do you think are the locals main needs in Santo Amaro?
- Is there some activities in the night? And what kind of?
- Is there something that tourists do not know yet? Where?
- Is our family income somehow related to tourism?
- o if YES:
 - What activities and how many people are involved?
 - What's your income?
- o if NO:
 - Why?
 - Would you like to work in tourism business?
 - What do you think you could work with?
 - What do you think could help you to be inserted in this business?
 - what do you do?
- What is routine like? What do you do when not working? do you have any hobbies?

not working? do you have any hobbies?
 - What are the best things to do here? do you visit them? What would you recommend to a tourist?
 - What do you hope for the future? (thinking about the tourism)

BUSINESS OWNERS (restaurants, hotels, other entrepreneurs)

- What is the best season to have tourists?
- What is the average type of tourists here (age, gender, nationality, alone/group/family)?
- How many days do they usually stay at Santo Amaro?
- Do you think they wish to come back?
- What do you think need to be better to develop the tourism and economy at the city?
- Do you think there are good politics programs from the government in that matter?
- Do you feel safe in Santo Amaro? Why?
- How you see the future? What you hope?

TOURISTS WHO ARE VISITING THERE

- Why did you travel to Santo Amaro?
- Did you have previous information and where?
- How did you came here?
- How many days do you intend to stay here?
- What could be better here? (infrastructure)
- What is the best thing here?
- Would you come back? Why?

Interviews and observation are activities that all LAPASSION students experiment
 Projects are "client-oriented"

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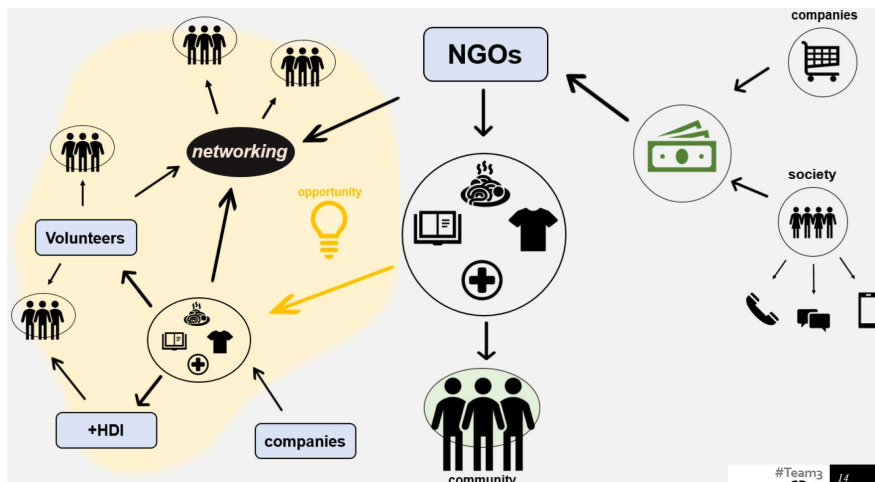
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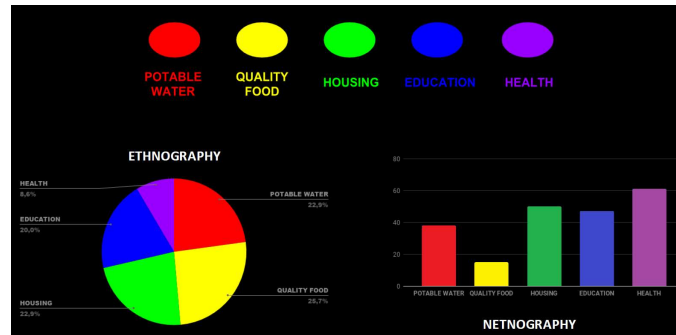


Every week one team organizes a breakfast for colleagues
Good opportunity to ask for feedback





Concept maps, Schemes, Diagrams, etc



Inquiries and Studies



Experimentation



Meetings with responsible entities, and people





LATIN AMERICA PRACTICES AND SOFT SKILLS FOR

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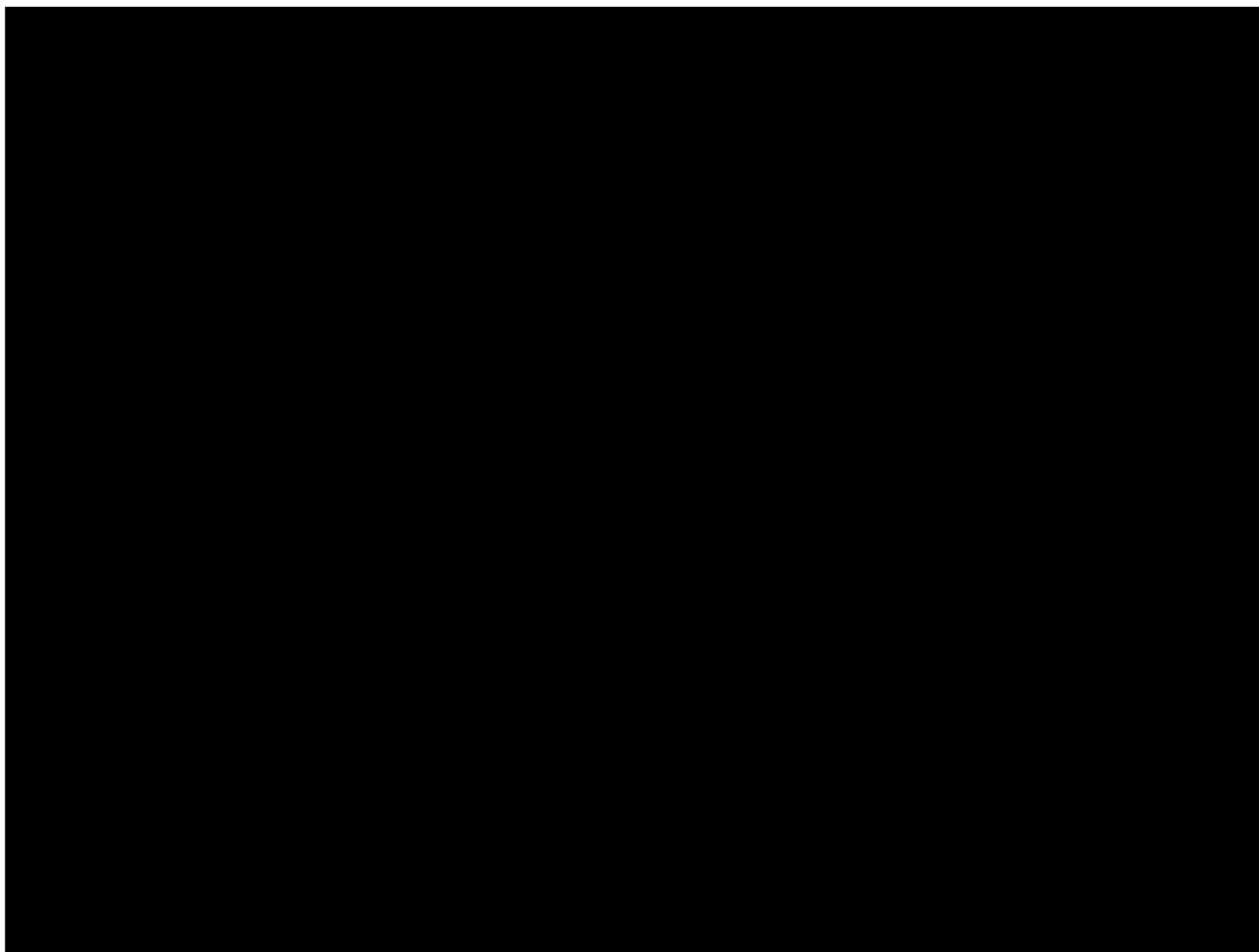
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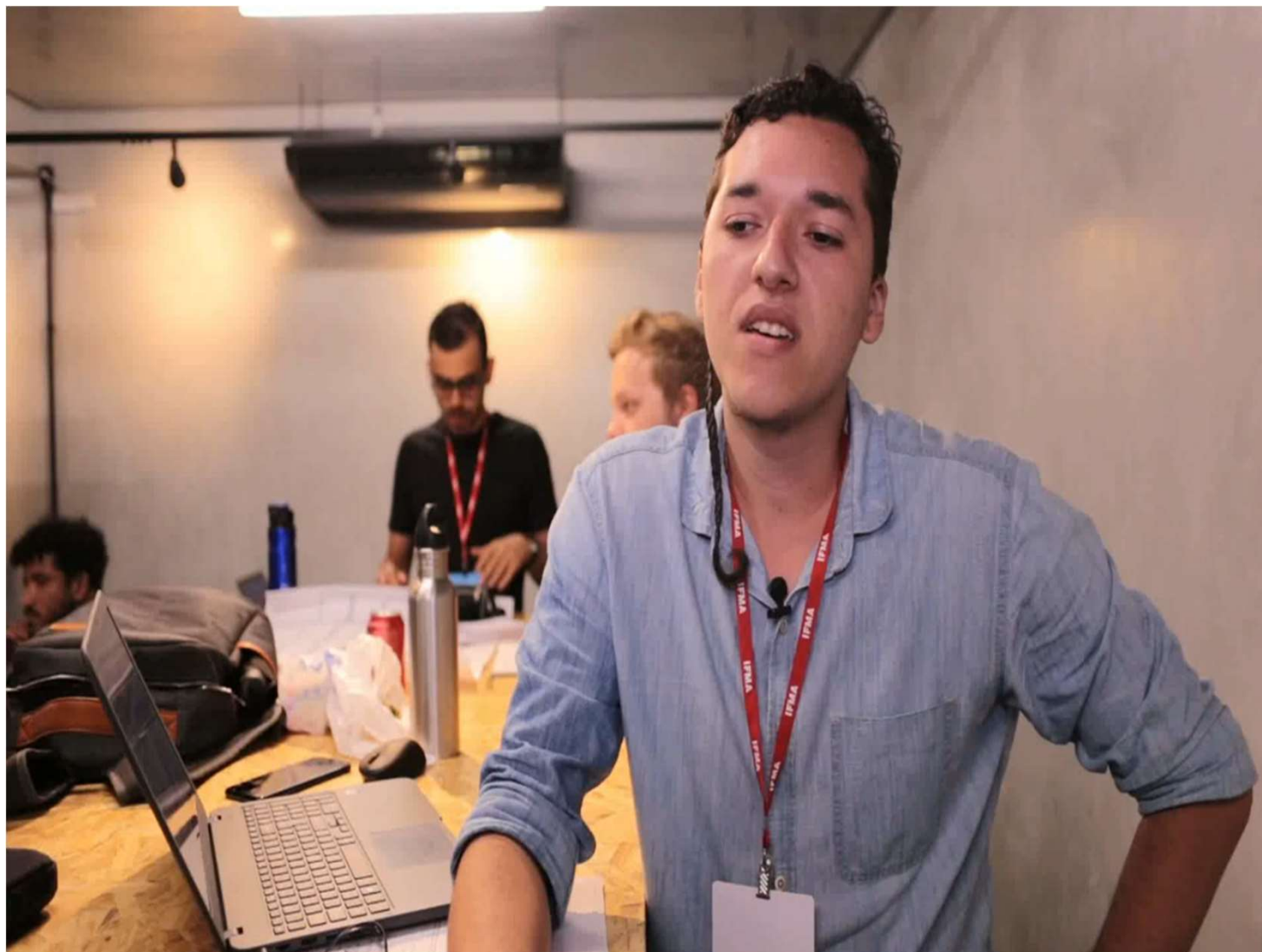
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Where we are, and where we go?

- Students have just finished the 4th of 10 weeks of LAPASSION@SãoLuís
- At the end of the 3rd week they presented the Grand Delivery GD1 (the first of six) where they present their work and identify 3 opportunities of actuation in their subchallenges
- At the end of 5th week they will choose 1 opportunity to develop in the following weeks
- Demo Day is the main event at the last week, where students will make a pitch, explain their ideas by posters and demonstrate their prototypes/systems
 - It will be held on 23rd of May – Everybody invited

8- LAPASSION@Uruguay - Multidisciplinary Projects for the Challenge "How to improve the conditions of Children"

Carlos Ramos, ISEP-IPP/Portugal



establecer
vinculos e
intercambios
entre dos franjas
etarias opuestas



la intervención de la
tecnología permitirá
compartir experiencias y
resultados del juego,
estimulando la creación de
una comunidad interactiva

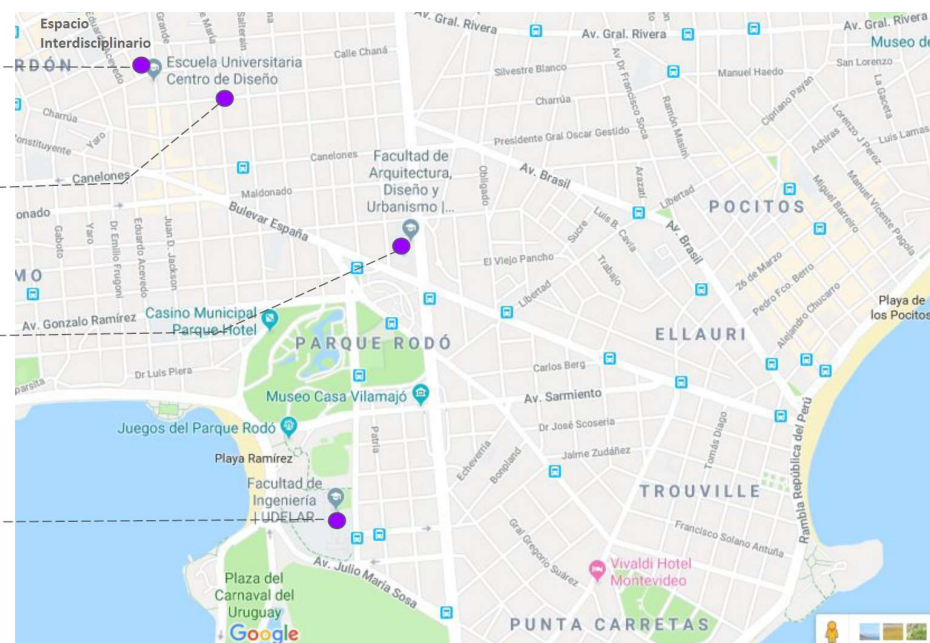


demonstrando los
beneficios del juego
para todas las edades



How to improve the
conditions of Children?





LAPASSION@Uruguay - the first day



First day of LAPASSION@Uruguay
A different activity and
Culture of Belonging to LAPASSION





Going to the Campus Innovation Weekend
In Punta de Leste



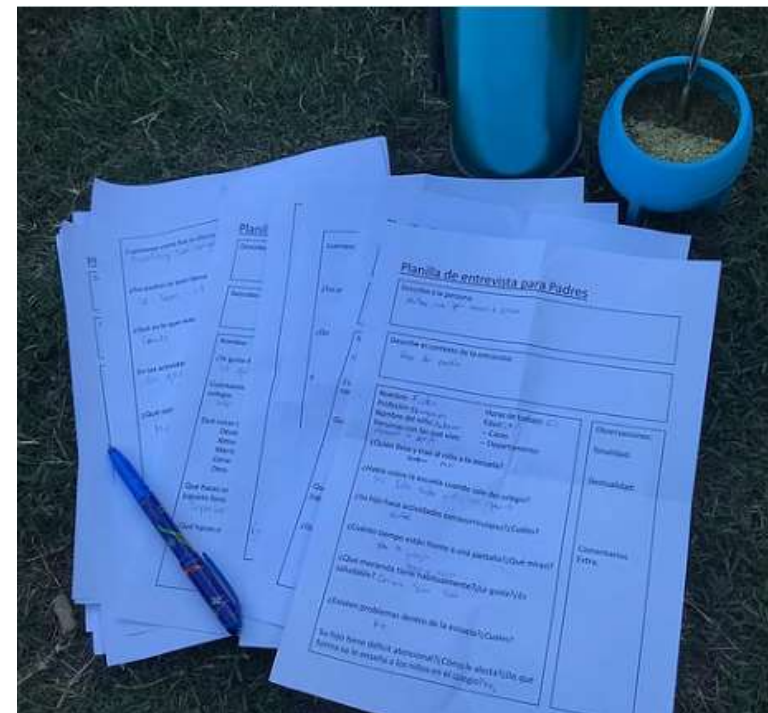
Going to ITR (Instituto Tecnológico Regional)
Centro Sur, from Universidad Tecnológica
(UTEC), in Durazno
Bricks & Bits activity (creating new toys)



Client-oriented means Final user oriented



Interviews, Questionnaires and Observation of
Children, Parents, Professors



Multidisciplinary & Multicultural Groups



Nair
IPP (PT)
Medical Comp.



Álvaro
UDELAR (UY)
Electrical Eng.



Giordina
UDELAR (UY)
Architecture

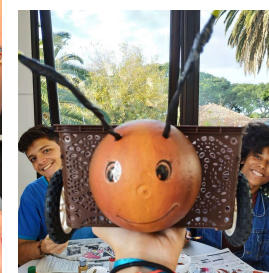
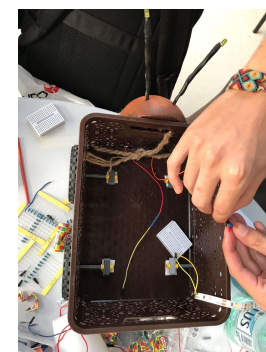


Nicolás
PUC (CL)
Eng. Design&Innov

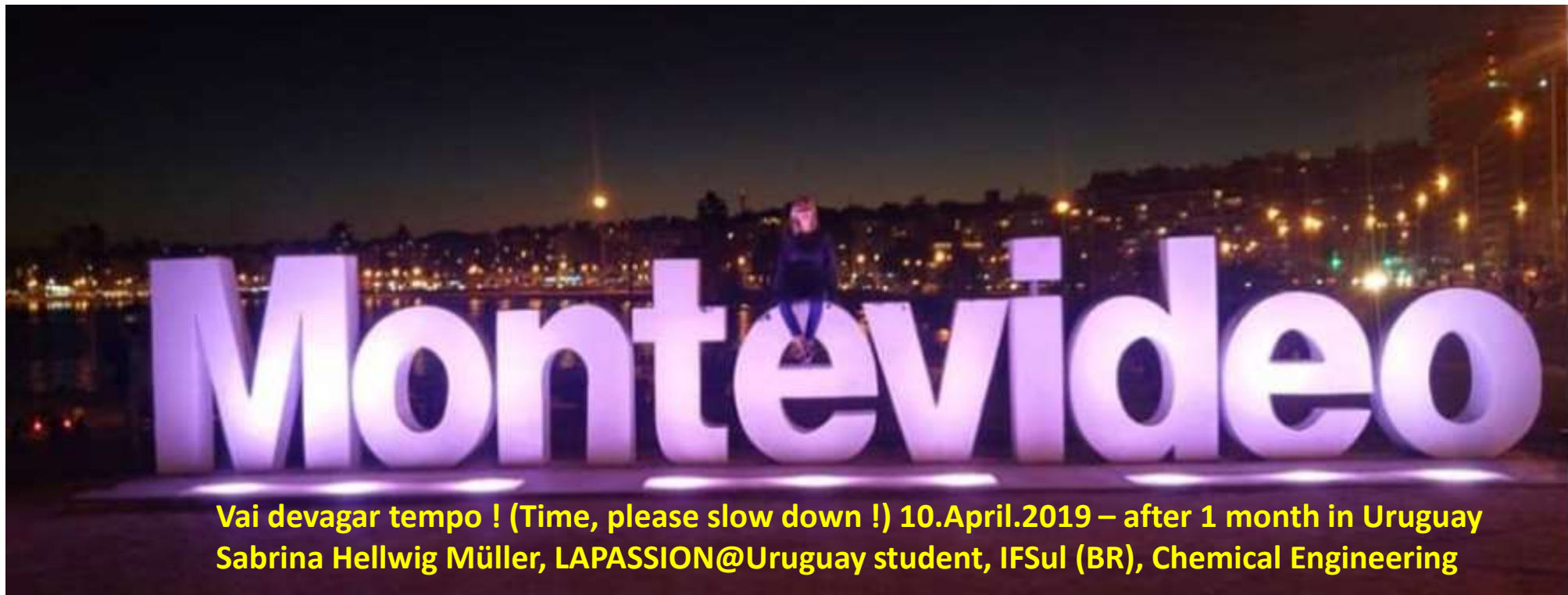


Macarena
UDELAR (UY)
Psychology

TEAM 5



LAPASSION is also about feelings



Vai devagar tempo ! (Time, please slow down !) 10.April.2019 – after 1 month in Uruguay
Sabrina Hellwig Müller, LAPASSION@Uruguay student, IFSul (BR), Chemical Engineering

- Questions for
- 6- LAPASSION@Uberaba - Multidisciplinary Projects for
the Challenge "Food for the Future"
- AND
- 7- LAPASSION@SãoLuís - Multidisciplinary Projects for
the Challenge "How to improve the HDI of Maranhão"
- AND
- 8- LAPASSION@Uruguay - Multidisciplinary Projects for
the Challenge "How to improve the conditions of
Children"

Juliana Alves, IFTM/Brazil; **Natilene Brito & Virgínia Freire**,
IFMA/Brazil; **Carlos Ramos**, ISEP-IPP/Portugal

9- Future Issues in LAPASSION

Carlos Ramos, ISEP-IPP/Portugal

What's next?

- LAPASSION@Santiago finished in 2018, with a great success, and inspiring for other HEI of the Consortium
- LAPASSION@Uruguay is in the middle, and LAPASSION@SãoLuís and LAPASSION@Uberaba have finished the 4th of 10 weeks
- In the 10th week of the 3 on-going LAPASSION@X we will have:
 - the Quality Control Meeting (for LAPASSION as a whole and for students' projects)
 - the Demo Day
- Impact in the media (TV, newspapers) demonstrate the great interest in LAPASSION as a project for transformation
- Next Monday LAPASSION completes 1 year and half, being in the middle of the CBHE project
 - Intermediate Report has been already sent, together with the request of the second financing of the project

What's next?

- 4 more editions of LAPASSION@X (X=Manaus2020-BR; X=Goiania2020-BR; X=Pelotas2020-BR; X=Santiago2020-CL) will take place
- It is important to think in the Sustainability of the project [2021-...] (e.g. fellowships for 23 students to go to LAPASSION@Santiago = € 83620)
 - What will happens after the end of the project?
 - Erasmus+ doesn't like to invest ~ 1M€ and nothing happens after the end of the project
 - This is the reason why LAPASSION is working the Sustainability from the very beginning of the project

What's next?

- How to gain scale? (from dozens of students to thousands)
- How to incorporate the LAPASSION concepts in courses and Programmes?
- Need to launch a “LAPASSION@LowCost”

Questions for 9- Future Issues in LAPASSION

Carlos Ramos, ISEP-IPP/Portugal



**Global Community
Engagement**
APRIL 13-17 - BELÉM, BRAZIL

Workshop LAPASSION - Multidisciplinary Projects for Groups of International Students

Thank you

More questions can be sent to:

[Carlos Ramos: csr@isep.ipp.pt](mailto:csr@isep.ipp.pt)

[Tiina Koskiranta: tiina.koskiranta@tuni.fi](mailto:tiina.koskiranta@tuni.fi)

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