GISFI Meeting Program

The 34th GISFI STANDARDISATION SERIES MEETING
Jointly with *GISFI Alumni Association*
October 22-23, 2019

Theme: STANDARDISATION IN EDUCATION for TECHNOLOGY RESEARCH AND COMMERCIALISATION

GISFI 10th Anniversary Celebration

The 34th GISFI Standardisation Series Meeting (GSSM) will be held jointly with the **GISFI Alumni Association** under the theme STANDARDISATION IN EDUCATION for TECHNOLOGY RESEARCH AND COMMERCIALISATION to reflect on the joint long-term persistent collaborations to create capabilities of Innovative research, Product development and Business modelling for start-ups in the multi-disciplinary areas with support of wireless technology that will revolutionize the global wireless ecosystem as an inherent part of the digital economy and society.

The Alumni of GISFI PhD Program, UG fellowship Program will demonstrate how GISFI influenced the development of individuals and Institutions to create achievements related to Theme. This meeting will strive to identify Technology areas, Global partners to work in future under GISFI and its allied networks. An international platform will be created for all participants for research and technology commercialisation.

Venue

V-iMEET, Vishwaniketan, Kumbhivali, Navi Mumbai

VISHWANIKETAN
Engineering, Architecture , Design and Incubation

GISFI Think Tank Session : Future Proposal of CTIF Global Capsule (CGC) for India
Peter Lindgren, Vice president, CTIF Global Capsule, Aarhus University, Herning, Denmark

IEEE Advancing Technology for Humanity   VISHWANIKETAN   Vishwaniketan Institute of Design   IETE THE INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS   GISFI GLOBAL ICT STANDARDIZATION FORUM FOR INDIA   CTIF GLOBAL CAPSULE

CTIF GLOBAL CAPSULE (CGC)

CTIF GLOBAL CAPSULE

Vision 2025

CGC President, Vice Presidents and Center Admin.

CTIF GLOBAL CAPSULE
Vision 2025

2004 CTIF

2009 CTIF Global

2014 CTIF Global Capsule

2025 CGC A Globe

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

Core TeleinFrastructure Global Capsule (CGC)

CGC Organisational structure

President CTIF Global Capsule
Prof. Ramjee Prasad

Vice President
Prof. Peter Lindgren.
Admin & Business Ecosystem

Vice President
Professor Carla Andreani
Technology

Associate Vice President
Dr. Ramesh Yadava
Business Eco System

Associate Vice President
Dr. Didoe Prevedourou
Information Technology

Associate Vice President Dr. Dr.
Ashutosh Dutta
Technology

Associate Vice President
Dr. May Hwang
Innovation Research

Advisory Board

Prof. Anders Frederiksen
Head of Department BTECH, Aarhus University

Dr. Anand Prasad
Chief Information Security Officer at Rakuten Mobile Network, Japan

Prof. Vince Poor
Princeton University

Dr. Tero Ojanpero
Co-Founder & Chairman, Silo.AI, Helsinki, Finland

Dr. Vinod Kumar
Director in Wireless Research (Retd) at Alcatel-Lucent Bell Labs, France

Dr. Walter Weigel
Vice-President of the Huawei European Research Institute (ERI)

Prof. Walter Konhäuser
Management Consulting Kastner GmbH & Co

Dr. Shingo Ohmori
Yokosuka Research Park (YRP), Japan

Prof. Giovanni Schiuma
Innovation Management at University of Basilicata, Italy

Prof. Bob Cryon
Vice Chancellor University, Huddersfield, UK

Guo Jun
Vice President BUPT, China

Prof. Marina Ruggieri
University of Roma "Tor Vergata", Italy

Prof. Hiroshi Harada
University of Kyoto, Japan

Dr. Werner Mohr
Head of Research Alliances, Nokia Siemens Networks

Dr.Med.Sci. Egon Toft
Vice President & Dean at Qatar University

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CGC Divisions – 14 CGC divisions 2019 – towards 25 in 2020

CGC Divisions
https://ctifglobalcapsule.org/about/ctif-divisions/

President CTIF Global Capsule
Prof. Ramjee Prasad

Division Director CGC Aarhus University
Prof. Peter Lindgren.

Division Director CGC Tor Vergata, Rome
Prof. Marina Ruggieri

Division Director CGC Vishwaniketan,
Prof. Sandeep Imamdar

Division Director CGC Romania
Prof. Octavian Fratu

Division Director CGC BIT Sindri, India
Prof. Dharmendra Kumar Singh

Division Director CGC Bulgaria
Prof. Vladmir Paulkov

Division Director CGC ITU, USA
Prof. Neeli Prasad

Division Director CGC Macedonia
Prof. Liljana Gavrilovska

Division Director CGC UoH, UK
Prof. Pavlos Lazaridis

Division Director CGC Croatia
Prof. Dina Simunic

Division Director CGC Greece
Prof. Constantionos B. Papadios
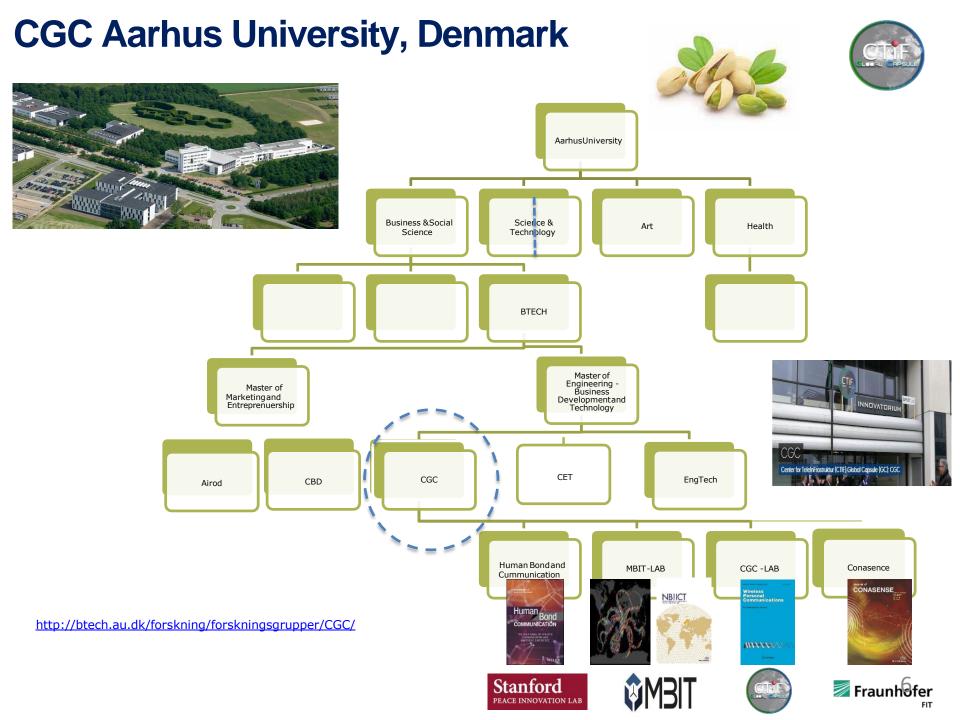
Division Director CGC Montenegro
Prof. Milca Pejanovic Durisic

Division Director CGC Zimbabwe
Prof. Mqhele E. Dlodlo

Division Director CGC Sandip
Prof. Dnyandeo D. Shinde

CGC Aarhus University, Denmark

AarhusUniversity

- Business & Social Science
- Science & Technology
- Art
- Health

BTECH

- Master of Marketing and Entreprenuership
- Master of Engineering - Business Development and Technology

- Airod
- CBD
- CGC
- CET
- EngTech

- Human Bond and Cummunication
- MBIT-LAB
- CGC -LAB
- Conasence

http://btech.au.dk/forskning/forskningsgrupper/CGC/

Stanford PEACE INNOVATION LAB

MBIT

Fraunhofer FIT

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The CGC – Aarhus University Division - as an example

Prof. Peter Lindgren

Adm. Gitte Kingo	Prof. Ramjee Prasad	Dr. Albena Mihovska	Dr. Sofoklis Kyriazakos	Dr. Ambuj Kumar	Dr. Muhammad Bilal

Dr. Per Valter · Program Manager Jane Flarup · Prof. Kim Bohn · Associate Professor Henrik Knudsen

PhD Student Pernille Clausen · Research Ass. Sadia Anwar · PhD Student Nidhi · External Consultant Shriganesh · Student Helper Kyriaki · Student Helper Thomas · Business PhD Kristian Løbner · Coming Nov. PhD Student · Coming Nov. PhD Student

+ 3 – 5 Guest Researchers

CGC Global divisions and networks
– Towards 15 CGC divisions 2019

CGC/CTIF Divisions

Memorandum Of Understanding (MoU)

CGC Aarhus University, Denmark April 2017

CTIF Denmark (Aalborg and Copenhagen) 29 January 2004 & 11 March 2008

CTIF Italy, Tor Vergata 28 September 2006

CGC UK, Huddersfield 2 July 2018

CGC Vishwaniketan, Mumbai India, February 2018
CGC BIT Sindri, India February 2018

CTIF Japan
(Yokosuka Research Park, YRP)
3 October 2008

CTIF USA (Princeton) 26 April 2011

CTIF USA San Jose ITU 27 February 2018

CTIF South East Europe
(Montenegro, Croatia, Romania, Macedonia, Bulgaria, and Greece)
24 September 2018

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
Core TeleinFrastructure Global Capsule (CGC)
CGC (NUST, ZIMBABWE)

Thailand
Singapore
Brazil
Ghana
South Africa
Pakistan
Bangladesh

Spain
Australia
China
South Korea
Indonesia
CTIF India (Kolkata) 1 December 2007

Germany
The Netherlands
Norway
Slovenia

CGC 12 Vertical Research Thematic Areas - 2025

Autonomic Transport system
- Intelligent Transport System
- Traffic Engineering and Autonomous Computing
- Image Processing and Computer Vision
- Automated driving progressed by Internet of Things

Holographic telepresence systems (HTPS)
- Holoportation and Mixed reality
- Multimodal Communication
- Immersive Telepresence
- Human Computer Interface Combination

CONASENSE
- Communication
- Navigation
- Sensing
- Services

Network Without Borders
- Internet of Things (IoT)
- Future Internet and NextGen. Networks
- Management & Source Optimization
- Cooperative Communication Techniques

Multimedia Application & Services
- Techno-Socio Systems
- Techno-Socio Economic Impact and Regulatory Framework
- Multimedia Home Networking
- Multimedia Vehicle Networking
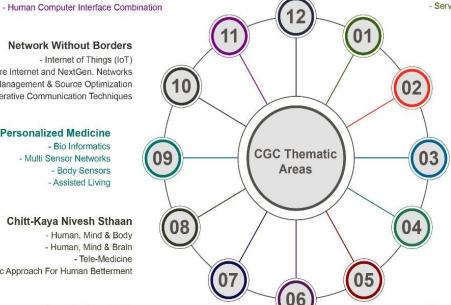
Personalized Medicine
- Bio Informatics
- Multi Sensor Networks
- Body Sensors
- Assisted Living

Future Wireless Technology
- AI Wireless Communication
- Smart Networks
- Routing Protocols
- Next Generation

Chitt-Kaya Nivesh Sthaan
- Human, Mind & Body
- Human, Mind & Brain
- Tele-Medicine
- Holistic Approach For Human Betterment

Knowledge HOME
- Human Bond Communication
- Communication Beyond 2050
- Human Centric Communication
- Interoperability

Security, Trust & Privacy
- Identity Management
- Physical-Layer Security
- Routing Protocols
- Data Protection & Ethical Guidelines

Secure Digitalization and Business Model Innovation
- Security in the Digital Ecosystem through MBMI
- Data Integrity and Protection in MBMI Interaction
- Human-based Security
- Technology-based Security

Standardization
- International Telecommunication Union (ITU)
- European Telecommunication Standardization Institute (ETSI)
- Association of Radio Industries and Business (ARIB)
- Global ICT Standardization Forum of India (GISFI)

CGC Thematic Areas

CGC 4 Horisontal Thematic Areas - 2025

CGC Value Propositions and Membership Benefits

Vertical Research Thematic Areas

Carla Andreani, University of Rome `Tor Vergata` Italy

CGC vertical research thematic areas ranging from ICT, to chemistry, to physics and translational medicine, human bond communication, envisaging possible technological solutions that bring about e.g. a transformation in the clinical and public health practices; the close connection between biomedical studies and knowledge and its exploitation through ICT tools will shape the translational character of the research accomplished by CGC. CGC Research Portfolio includes Exploratory Research, Strategic Research and Tactical Research

CGC Research Portfolio with Exploratory Research, Strategic Research and Tactical Research

Master Program

CGC will run novel Information Communication Technology, Business Model Innovation and Entrepreneurship program at the Masters' level, in understanding critical significance of Cross-/Inter-disciplinary research and need for a collective approach to societal needs.

Master students in TBMI Challenge

CGC Course participants downloading a Business Model in a CGC B-lab

http://btech.au.dk/forskning/mbit/

CGC master and PhD students pitching a new business Model for an international judge committee and Business Managers from Sweden, Norway, India and Germany.

Students and Staff Exchange Programme

CGC Divisions will run different exchange programs for master students, PhD students, Postdocs and staff members.

Student exchange Wishwaniketan in CGC 2019

Scholarship Programme

CGC will award scholarships on an annual basis at CGC divisions and exchange students between CGC divisions.

Staff and Student Exchange Thailand, Pakistan and India 2019

CGC Conferenceonor quest at CGC supported Conference

PhD Program

CGC´s global presence have led to the emergence of conducive research without borders environment and produced many successful PhDs.

CGC PhD Defense Swati Prasad with her PhD review committee and PhD supervisor.

Journals and Publications

CGC is responsible for 4 Journal Publications

Wireless Personal Communication – Springer Verlag (BFI 1) - ISSN: 0929-6212 (Print) 1572-834X (Online)
Wireless Personal Communication

Wireless Personal Communications is an archival, peer reviewed, scientific and technical journal addressing mobile communications and computing. It investigates theoretical, engineering, and experimental aspects of radio communications, voice, data, images, and multimedia. A partial list of topics includes propagation, system models, speech and image

CGC Books

CGC each year publish books within the fields of its Vertical and Horizontal focus areas.

Security within CONASENSE Paragon

Editor: Ramjee Prasad and Leo P. Ligthart

ISBN: 9788770220927; e-ISBN: 9788770220910
Available: June 2019

Other Businesses

CGC are open to discuss any other Business opportunity that can support the CGC Vision. Please feel free to contact:

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T: +45 29442211/ +45 23425504
M: peterli@btech.au.dk
www.ctifglobalcapsule.org

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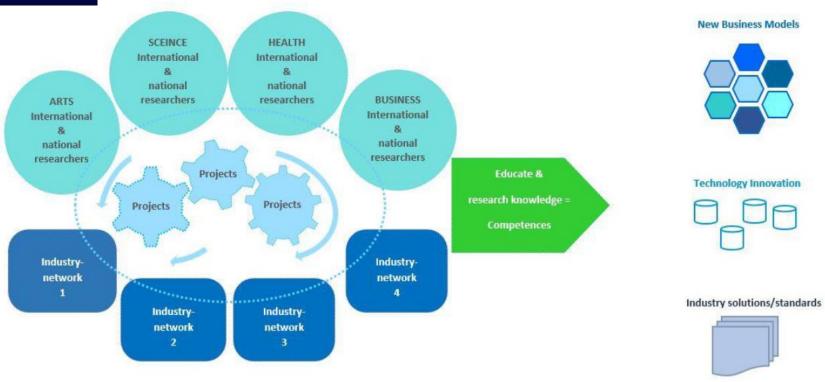
CGC Cross-/Interdisciplinary scientific projects

Four-IN-one

Conference Four in One 14-16 October 2019

- The Seventh CGC-South CGC-SEE)East Europe Workshop

- The Fourth BIT Sindri Association (BITSA) International World Connect

- The First International Conference of Capacity Building and ExchaNge towards attaining Technological Research and modernizing Academic Learning (CENTRAL)

- Green Technology Business Model Innovation Workshop (GTBMI)

https://events.au.dk/4in1/sign-up.html?uk=DBBD10B1-8FDF-4562-BFC3-28794C022148

Wireless Personal Multimedia Communications-2019

- https://wpmc-international-symposium.org/
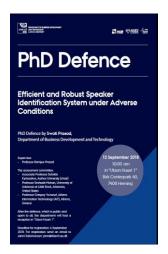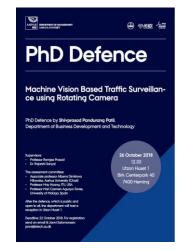
CGC PHD Defence – 4 PhD successfull defence 2018 – 8 more in 2019
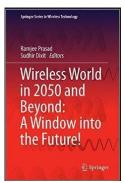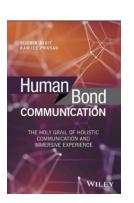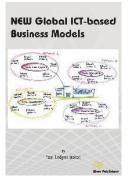
CGC – book contributions/library
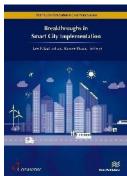
CGC Library

CGC funded Projects

4 Projects in 2018

- Digibusiness – 0.1 mio Euro
- Drone – 0,1 mio Dkr
- CENTRAL Project - Horisont 2020 (Thailand, India, Pakistan,
- Motor5G– Marie Curie EU – 15 PhD 2019 – 2021 (Apl. now) – 4 mio. Euro

8 new projects in 2019 – (3 accepted)

- RECOMBINE - "Research Collaboration and Mobility for Beyond 5G Wireless Networks" (RISE) - Accepted
- 2 Eramus+ Project accepted
- SET – 4,5 mio. Euro – Accepted
- DELIVERY – 4,5 Mio. Euro – submitted – 12-09-2019
- GREENWALL – 4,0 Mio Euro – submitted – 10-09-2019
- GREENBIZZ – 4,6 Mio. Euro – submitted – 13-09-2019
- FEAST – 7,5 Mio Euro – in pipeline Nov. 2019
- DIGIBUSINESS – 1 Mio Euro – in pipeline Jan 2020
- COE – 10 Mio Euro – in pipeline Jan. 2020
- Bridge – 4 Mio Euro – in pipeline spring 2020
- 2020 RIA (Fraunhofer, B&O, …) January 2020
- SMARTAVATAR – Spring 2020

CENTRAL – Project – CGC TBMI Summerschool

https://vimeo.com/359751863

CGC TBMI MOBILITY CASE BIOCHAR 2019

THE CHALLENGE

How can **Biochar** be a financially profitable Business Model for the business FRICHS?

Which Business Model Ecosystems should Biochar focus in India and/or Pakistan?

FRICHS Business would like to have a Business Model analyze and recommendation for business model setup with **BIOCHAR.**

Our Approach :- "*Begin with the end in mind*"

Our Team :-

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+45 4036 7165
omu@frichs.com
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Solid international experience with installation and start-up of energy plants.

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Dr. Rabia Noor Enam
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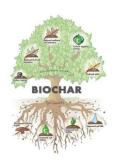
Mr. Abdullah Ansari
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KIT's College of Engineering,
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Mr. Benedict
Vishwaniketan, India

SUPERVISOR

Ambuj Kumar

Bagasse   +   Molasses = WASTE

the dry pulpy
residue left
after the
extraction of
juice from
sugar cane

thick, dark
brown juice
obtained from
raw sugar
during the
refining
process

One metric ton of sugar cane yields about 300 kg of bagasse

1 CANE MARSHALLING YARD   2 CANE RECEIVAL   3 TIPPLER/WEIGHBRIDGE   4 SHREDDER

Cane is delivered from the cane fields in mesh bins hauled by diesel locos

Cane bins are weighed and emptied

Cane is shredded

12 BOILER STATION

Steam for electricity generation, turbines & processing

5 MILLING TRAIN

Juice is crushed out of shredded cane

BAGASSE STORAGE

7 EVAPORATOR STATION
Water is evaporated out of the juice by steam to form syrup

CLARIFIER
Removes dirt from juice

6 HEATER
Juice is heated

LABORATORY
Juice is analysed for sugar content

Clear juice

Mud settles to bottom

8 MUD FILTRATION

Mud is returned to the Canefields as fertiliser

Filter mud

VACUUM PAN

9 CRYSTALLIZATION & SEPARATION

Sugar crystals are grown from syrup

CENTRIFUGALS
Sugar is separated from molasses by spinning

WET RAW SUGAR

SUGAR DRIERS
Sugar is cooled and dried

DRY SUGAR

10 BULK SUGAR HANDLING
SUGAR HOPPERS
Bulk storage

Raw sugar is delivered to bulk sugar shipping terminal by truck

4/19/2014
Molasses used as stock feed and for ethanol production

Bagasee(100%)= Fuel (80%) + Paper(20%)

FRICHS A/S

Fuel (70%)

BIOCHAR

= Golden Gap ?

Additional (10%)

Sugarcane (120 lbs)

Juice extraction

Cane juice

S. cerevisiae

Bagasse (31 lbs)

Fermentation

CO_2 (6-12 lbs)

Molecular sieves

Anhydrous ethanol (1 gal)

Heat/Steam/ Electricity generation

Boiler

Distillation

Vinasse (8-15 gals)

PAPER INDUSTRY

10% +20 %=30% Paper ?

SUGARCANE : CO2 NEUTRAL

Critical Components of Sustainable Bioenergy Production Systems

Absorb CO2

Environmental Sustainability

Consumer Demand

Emit CO2

Sustainable Production of Biobased Products

Sustainable Forest Operations

Manufacturing/ Energy Production

Product Delivery Logistics

Rural Economic Development

Martin Holmer, 2001

IEA Bioenergy Task 31

@sthitaprajna

steemit

FRICHS A/S

CO2 Negative

BIOCHAR
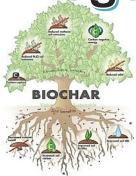
**Call topic: Upgrading smartness of existing buildings
through innovations for legacy equipment**

ID: LC-SC3-EE-4-2019-2020

Title of Proposal:

GREENWALL: GReen Energy ENvelope
Wireless smArt Longlife buiLdings

Overall System Model of MOTOR5G and RECOMBINE.

Horizon 2020

Call: H2020-MG-2018-2019-2020
(2018-2020 Mobility for Growth)

SECOND STAGE

Topic: MG-2-8-2019
Type of action: RIA

Proposal number: SEP-210589087

Proposal acronym: DELIVERY

Deadline Id: H2020-MG-2019-TwoStages

(d) Developing innovative multi-business model

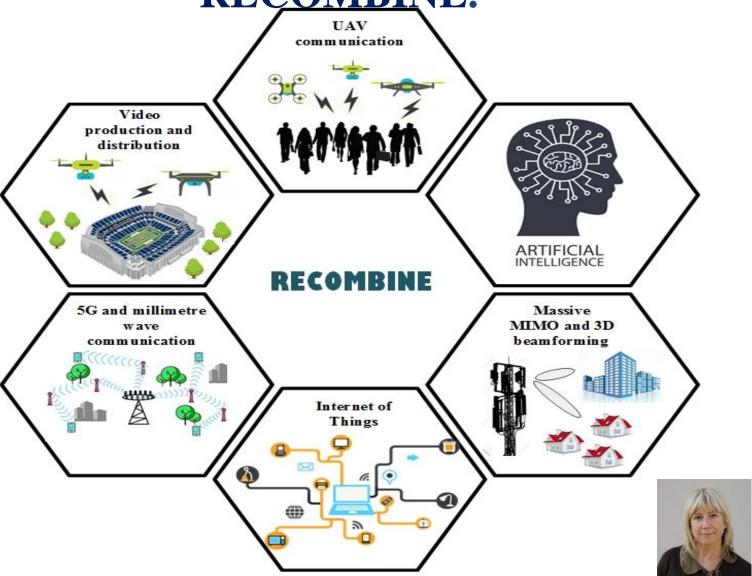The project shall develop a multi-business ecosystem comprising of at least ten innovative business models canvassing— value propositions such as new products, services, processes, business-to-business, and business-to-customer relationships pertaining to the proposed technological solution. This emblematic objective shall provide an impetus to penetrate new markets paving the way towards digital off-shore port services ecosystem.
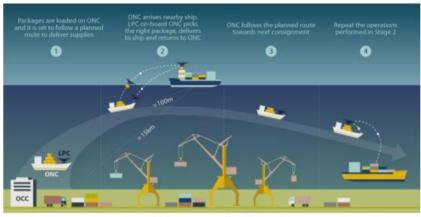
Figure 1: Illustration of the end-to-end delivery process through the coherent actions of water-buoyant and aerial drones coordinated by On-shore Command and Control Centre.
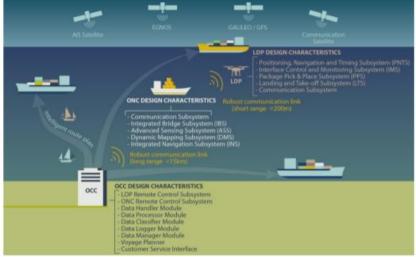
Figure 2: Delivery Subsystems Functional and Design Characteristics.

GREENBIZZ

Danish PM calls climate change 'greatest challenge of our time' at UN summit

Ritzau/The Local
news@thelocal.dk
@thelocaldenmark

24 September 2019
14:15 CEST+02:00

climate

Share this article

Frederiksen's government has proposed a target of 70 percent reduction in CO2 emissions nationally by 2030!

Photo: Stephanie Keith/AFP/Ritzau Scanpix

Prime Minister Mette Frederiksen said the current generation of world leaders will be judged in future on how they reacted to the global climate crisis as she addressed the UN climate summit in New York.

Interreg
EUROPEAN UNION
Öresund-Kattegat-Skagerrak

GREENBIZZ objective is to increase the use of Green Energy by 10% in Startups and SME´s in KASK region by engaging businesses actively in the development of their business models embedded with renewable energy.

GREENBIZZ focus on the business models in the entire supplychain – or network of business models.

Many startups and SME´s see today Investments in Green Energy and Green Energy technologies as risky and less transparent to conventional investment. The reason is that investment in Green Energy requires change in business practice, adapting new high-tech and risk of change in rules and subsidies.

CGC/MBIT research group
Researching and Developing
digitalized TMBMI Environment

Status >

Control Panel >
Download >
Upload >
Shutdown >
Reboot >

Local Factors

https://vimeo.com/269442986

CGC/MBIT Research Group – digitalization of BM and MBMI - Thedigiboard
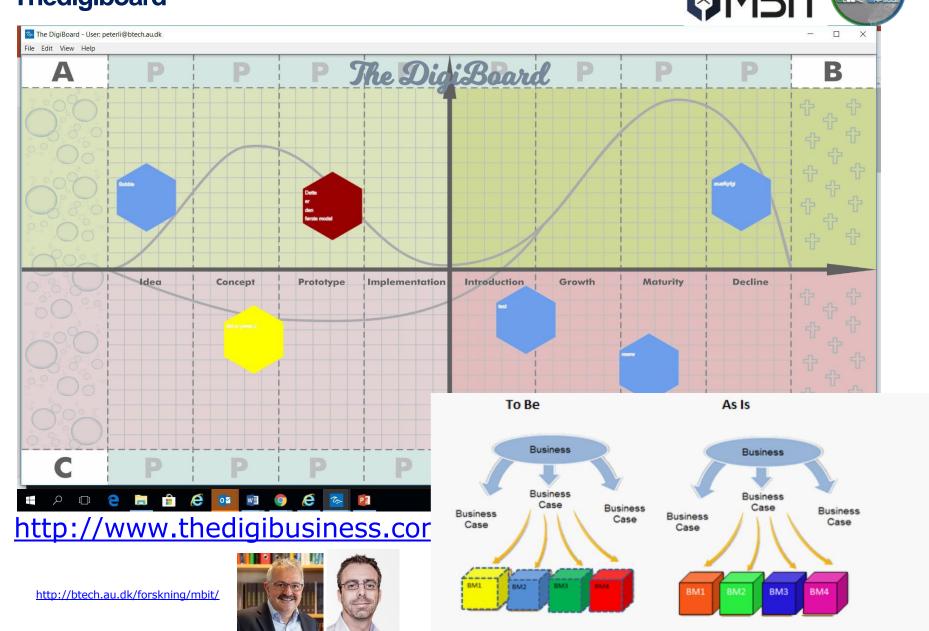

http://www.thedigibusiness.com

Figure 4 - The Multi BM approach related to "to-be" and "as-is" BMs [29].

A CGC/MBIT Research – Present Experiments

Mood recognition, health and behavior monitoring in MBMI
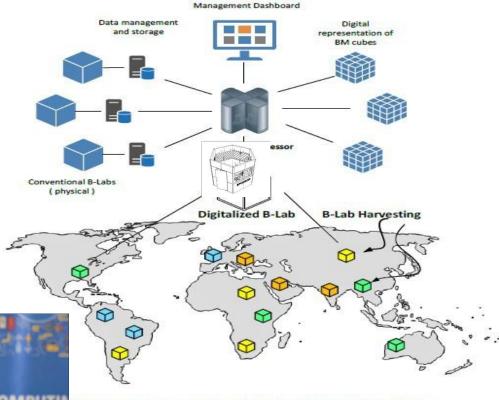
CGC Digitalisation 2019/2020

– experimental B-labs and soon webinar transmission of CGC workshops world wide   (30 B-labs by 2019 - TOWARDS 50 CGC B-LABS in 2020)

Management Dashboard

Data management and storage

Digital representation of BM cubes

...essor

Conventional B-Labs (physical)

Digitalized B-Lab   B-Lab Harvesting

5: B-Lab harvesting through digitalization

Agata Manolova
Technical University of Sofia, Bulgaria

COMPUTING
CONFERENCE

Ambient realization through sensors

Digitalized B-Lab

Extendibility

Meta/Big Exchangeable Data

Figure 6: Ambient realization of B-Labs

https://www.youtube.com/watch?v=B21Ck4KN-Lw

August 29, 2018

The Virtual Business Model participant - Twillings project Horison 2020
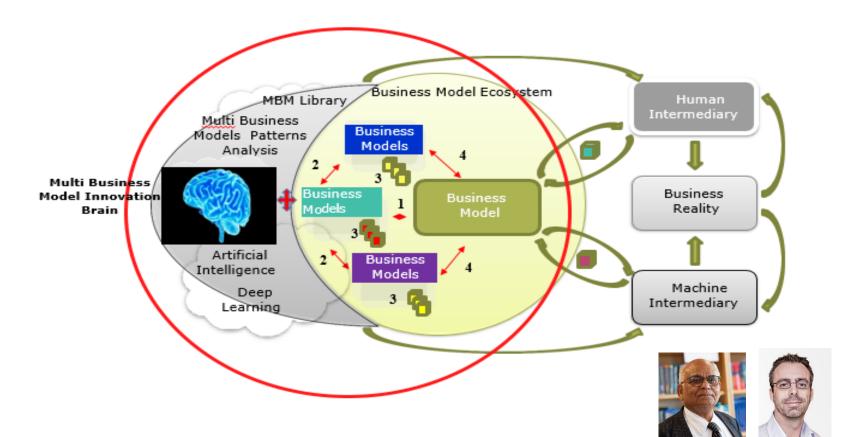
The MBMI BRAIN
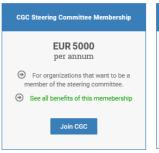
- Advanced Multi Business Model Innovation in BM´s and BMES´s.

Future wireless technologies will be composed of many different technologies and techniques, (e.g., deep learning, AI, neural BM networks and Natural BM Language Processing (NBMLP) supported by Multi Business Model Libraries and Multi Business Model Pattern Analysis. CGC will research and experiment in this field.
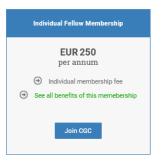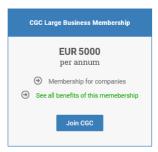
CGC Membership.

CGC have six (6) types of membership:

CGC Steering Committee Membership
EUR 5000 per annum
⊕ For organizations that want to be a member of the steering committee.
⊕ See all benefits of this memebership
Join CGC

CGC Institutional Membership
EUR 3000 per annum
⊕ Membership fee for institutions
⊕ See all benefits of this memebership
Join CGC

Individual Fellow Membership
EUR 250 per annum
⊕ Individual membership fee
⊕ See all benefits of this memebership
Join CGC

CGC Large Business Membership
EUR 5000 per annum
⊕ Membership for companies
⊕ See all benefits of this memebership
Join CGC

CGC SME Membership
EUR 3000 per annum
⊕ Membership fee for SME
⊕ See all benefits of this memebership
Join CGC

CGC StartUp Membership
EUR 100 per annum
⊕ Membership fee for StarUps
⊕ See all benefits of this memebership
Join CGC

Sponsorship

CGC have several sponsorships from industry, organisations and funds.

Sponsorships are of different kinds:

- lab equipment sponsorship,
- research project sponsorship,
- event and conference sponsorship,
- special issue journal sponsorship,
- book or rapport sponsorship

Private and institutional partnerships

Partnerships and resulting projects will represent a third source of income for CGC to both the direct financing from the projects and the indirect financing from the participants to the project. CGC will offer to be coordinator of projects and individual consortium member can pay a fee for the project coordination, coordinator for fundraising, managing and evaluating successfully projects.

PhD, master and undergraduate programs and internships

In addition, for PhD, master's programs and undergraduate Internships, CGC will provide human resources for PhD studies, teaching and training at the top-ranking CGC university partners, applying a fee for the host and home institution. CGC divisions host industrial PhD´s from all over the world, who wants to study and join CGC research. As a member of CGC all CGC PhD researchers together with faculties' members will have access to office place in any CGC Divisions worldwide.

CGC Benefits

- Global Platform for Cross interdiciplinairy research, learning, teaching, challenge solving, meetings

- Continuous research, teaching, learning

- From problem based learning to startup – SME´s – Global Scale up

- A global scaleup platform that bridge technologies to business

- A platform that is born global and act local

- Advanced and world class Technology and Multi Business Model research and Innovation

CGC Benefits

- Access to a research, knowledge, teaching and learning platform independent of place and time

- Research platform that takes up strategic thematics of the future, past and present

- CGC brings the universities research, teaching and students to the businesses and the business to the universities

- CGC builds on a common language enabling participants independent of background to speak together

- CGC creates "rooms" spread out globally that are interconnected

CGC Benefits

- **Open hard, open mind, open office**

- **Will to continuous improve, innovate and learn**

- **Will to learn**

- **Will to collaborate in an global cross interdisciplinary research, teaching and business non profit organization**

- Welcome to be a member of CGC

Questions

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