

sustainable management of coastal and marine resources

Mingguo Jiang

Recording interface showing a grid of video thumbnails. The thumbnails are arranged in a vertical column on the right side of the screen. Each thumbnail features a blue background with white text and a small circular logo in the top right corner. The text on the thumbnails includes 'VISITING LECTURE' and 'GRADUATE SCHOOL'. The thumbnails show the following names and content:

- Windi Damayanti: A woman wearing a grey hijab.
- Emma Rochima: A woman wearing a red hijab.
- 姜明国 (Mingguo Jiang): A man wearing glasses and a dark jacket.
- Ayu Permata_MIR01: A woman with dark hair.
- aditya 01: A man with dark hair.



姜明国

VISITING LECTURE
 "Sustainable Management of Coastal and Marine Resources"
 December 17th, 2021



GRADUATE SCHOOL
 UNIVERSITAS PADJADJARAN



Emma Rochima



Setiawan

Windi Damayanti

Windi Damayanti

Zoom Meeting participant bar showing:

- Emma Rochima
- Windi Damayanti
- Hari Sukarno_01
- 姜明国
- Dede Sopyandi 01
- Sutrisno Poltek KP Sda



Recording

Coastal zone: essential for maritime activities

Coast: not just the end of land, but the beginning of sea



Intensity of maritime activities is maximum

**Ressources
biodiversity
costs
Distance...**

**Ports, shipyards
Shallow waters
Cables and pipes
landings...**



All maritime activities need access to the coast and to the land

Coastal maritime zones are crucial for maritime activities

No maritime activity can develop without access to land

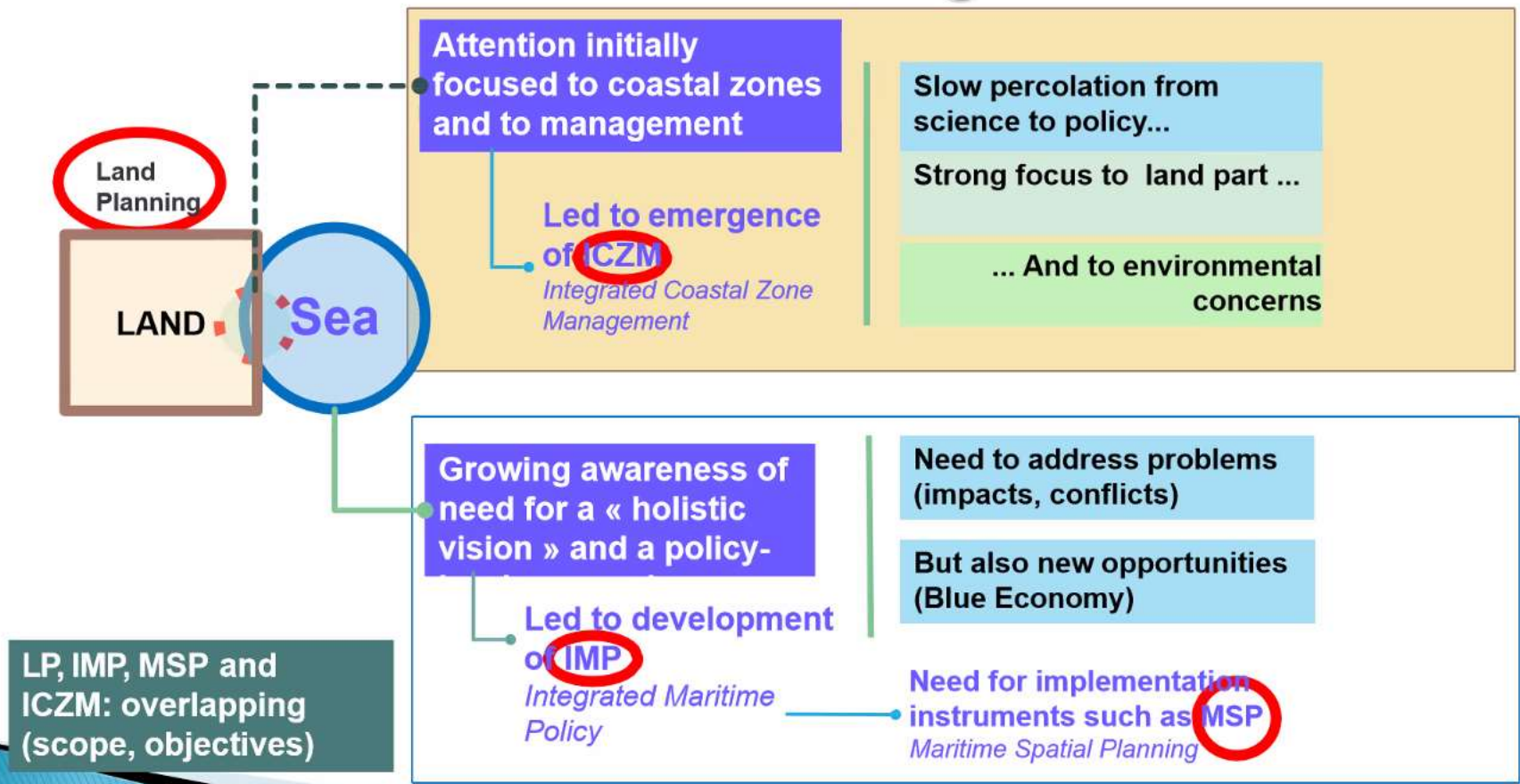
Cannot be reserved to land-based activities...

Some coastal space **MUST** be reserved to maritime activities...

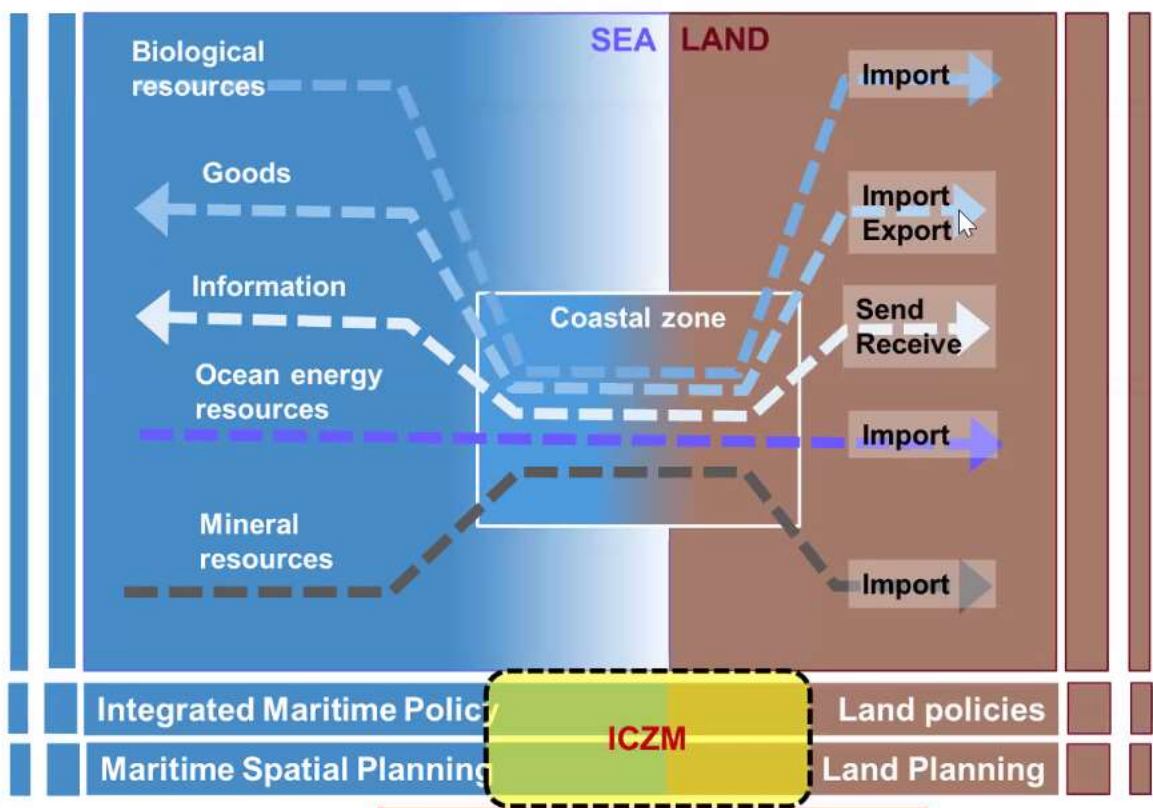
**Consequence:
it is essential for coastal management to consider maritime activities (first !)**

Zoom Meeting navigation controls: back, forward, mute, video, chat, etc.

Towards sea and coast management



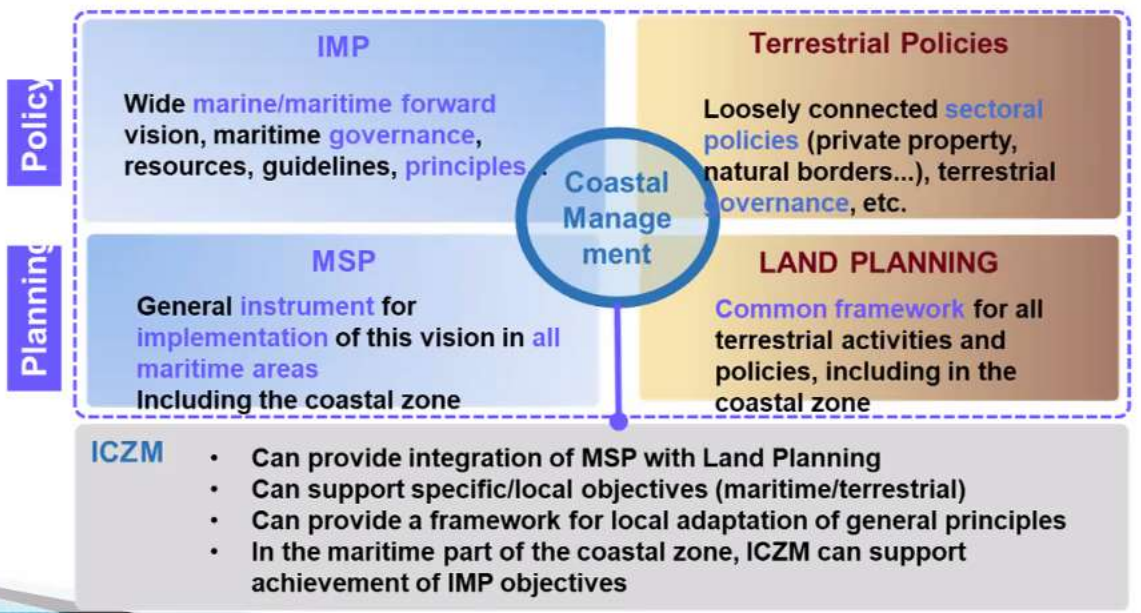
Land-sea (sea-land?) interactions: the full picture...



Many drivers out of the coastal zone...

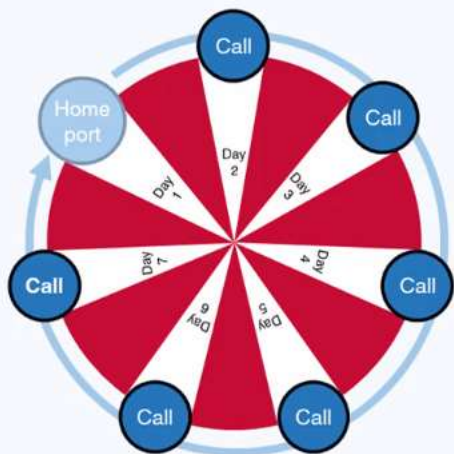


What is missing? A common framework

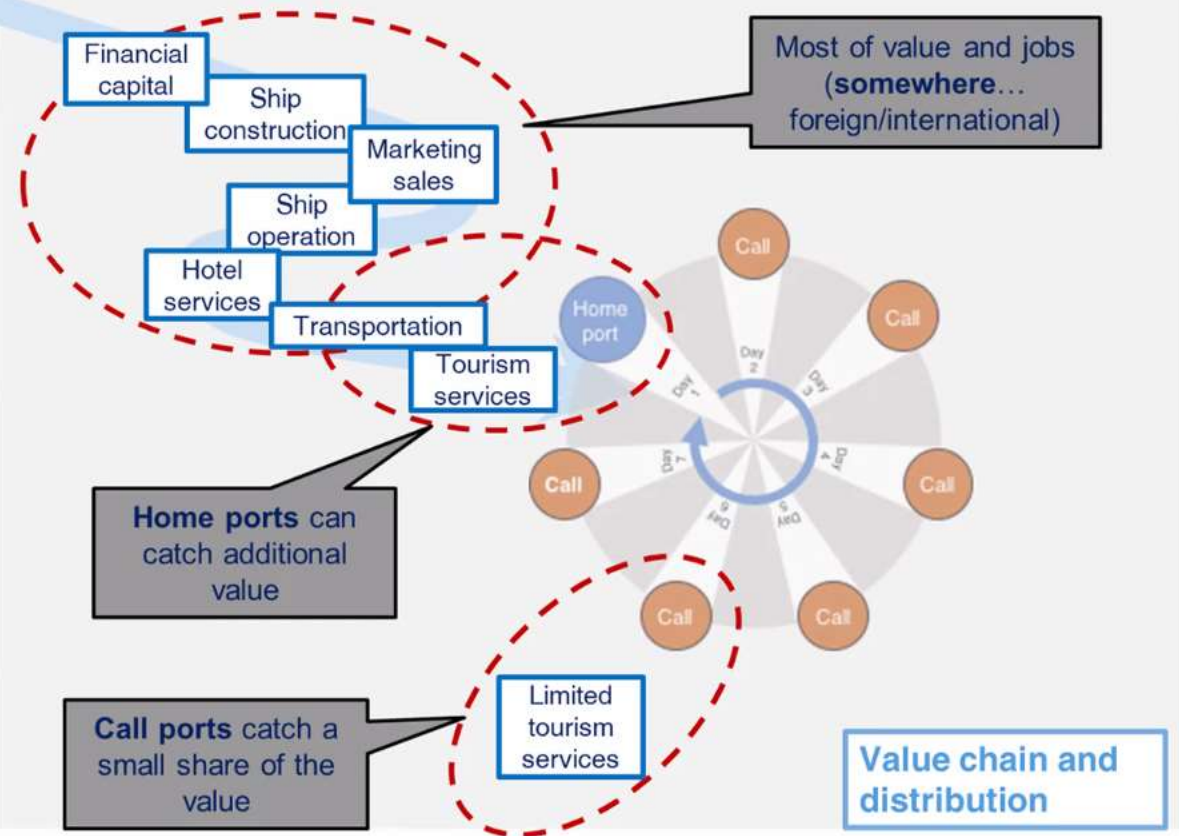


Cruise tourism: increase local return (1)

« Standard » MED cruise



- 1 week, 6 calls. Sail overnight
- Calls: a few short circuits/visits
- Not all passengers disembark



VISITING LECTURE GRADUATE SCHOOL

December 17th 2021

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Emma Rochima

Hari Sukarno_01

姜明国

Dede Sopyandi 01

Windi Damayanti

Sutrisno Poltek...

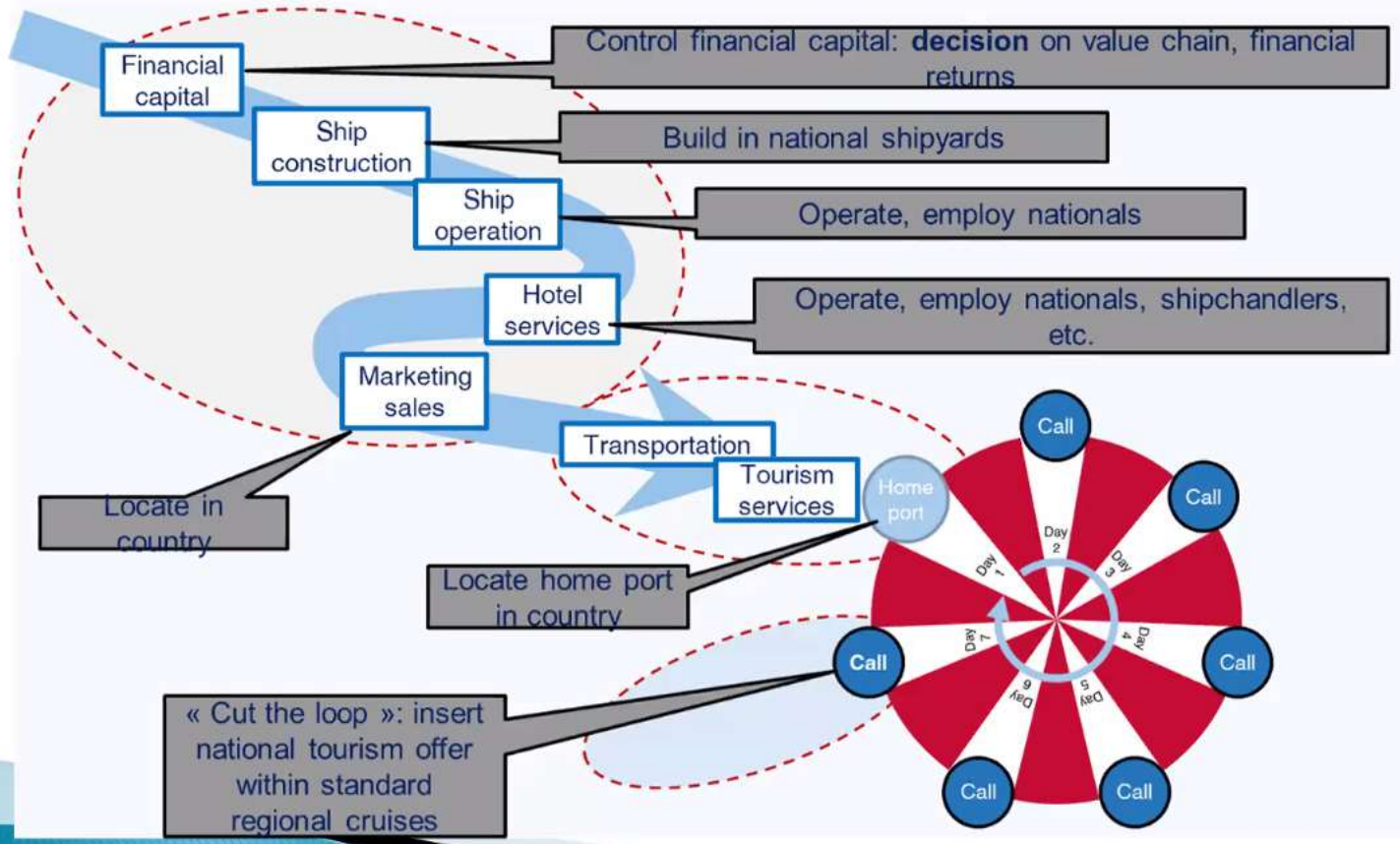
Windi Damayanti

Sutrisno Poltek KP Sda



Recording

Cruise tourism: increase local return (2) - Some opportunities



VISITING LECTURE
Sustainable Management of Coastal and Marine Resources
November 17th 2021



Emma Rochima

VISITING LECTURE
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Hari Sukarno_01



姜明国



Dede Sopyandi 01

Windi Damayanti

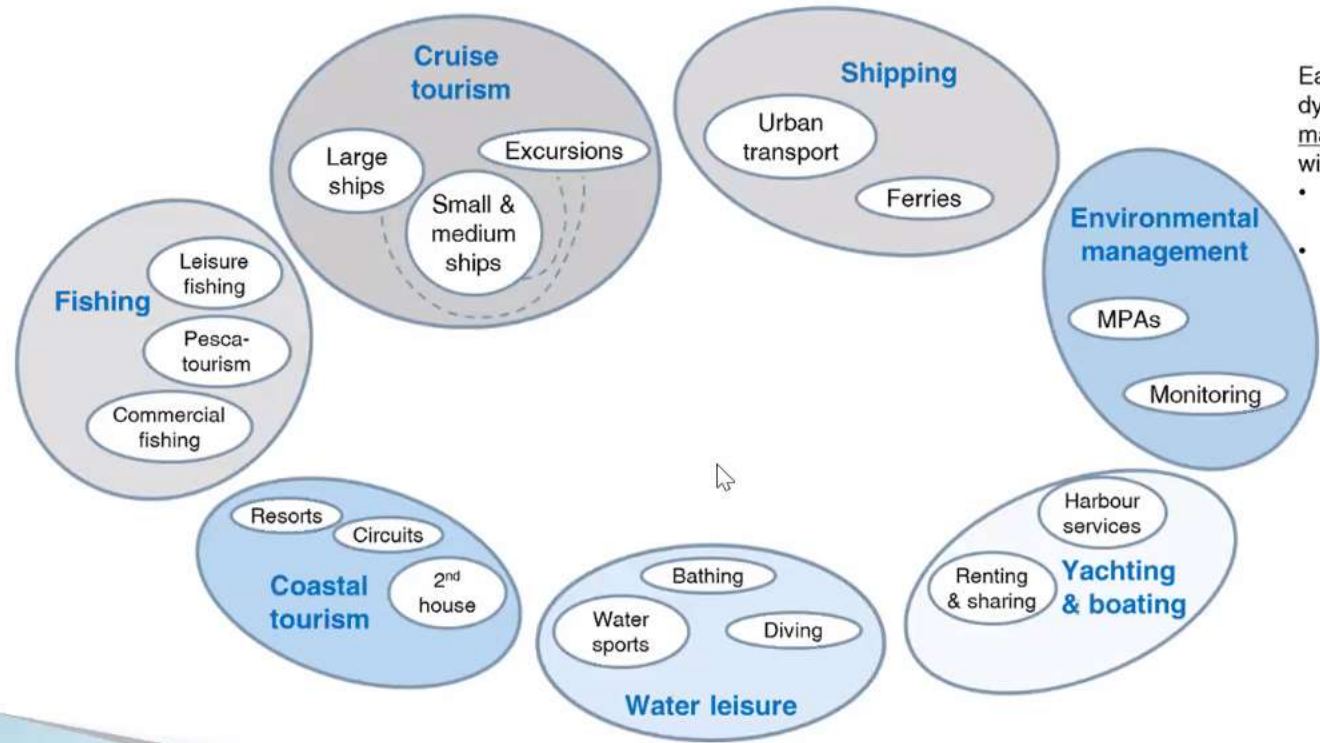
Sutrisno Poltek KP Sda



Recording

Integrated Functionnal Cluster

« Maritime and coastal tourism and leisure



Each sector has its own dynamics, but there are many potential synergies within this cluster

- Driven by *tourism and leisure*
- Many possible links to be explored (only some represented here)
 - E.g. MPAs and excursions, diving, water sports, tourism circuits, yachting, leisure fishing....



Zoom meeting participant bar showing five video thumbnails with names: Emma Rochima, Hari Sukarno_01, 姜明国, Windi Damayanti, and Dede Sopyandi 01. A sixth participant, Sutrisno Poltek KP Sda, is listed without a video thumbnail.

Sutrisno Poltek...



Recording

Get the best from maritime cruise

What is the best way to value your maritime and coastal capital through local jobs and local assets?

Situation : Low added value from cruise calls



Proposed strategy: 2+3

Strategy	Pros	Cons
1 - Development of cruise based attractiveness for foreign companies for calls	« global » model, in line with global market requirements (full availability of infrastructures, competitive prices) Valorization of natural & human heritage	Low medium basket at call , limited local value (few jobs, most value in cruise home port Environ. Impact & infrasaturation (e.g. crowded call) High dependance (cruise companies
2 - Development of medium cruise at regional level with regional actors	Low investments Cruise program and call duration in accordance to discover the coastal capital. Low environmental impact	Need for national training and fleet (investments)
3 - Development of small cruise at regional & national level	Cruise program and call duration in accordance to discover the capital. Low environmental impact	Need for national training and fleet (investments)
<u>Local or subregional tours operated by locals Synergies with tourism and ferry passengers</u> <u>Regional & local maritime Cluster creation</u>	Human and natural capital valorization with sustainable cruise with low environment foot print and maximum added value along the value chain	Need for training and local capital - Common strategy needed with tourism, passengers transport

VISITING LECTURE GRADUATE SCHOOL

Emma Rochima

Hari Sukarno_01

姜明国

Windi Damayanti

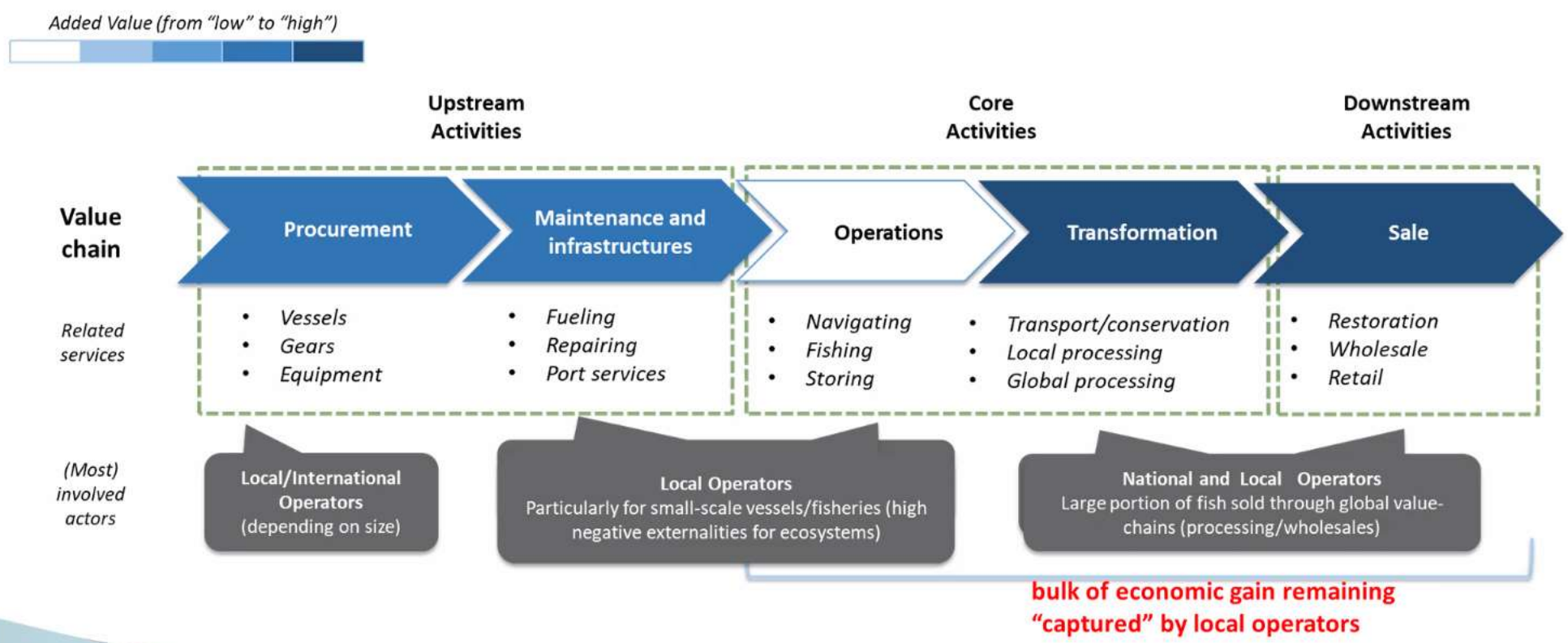
Dede Sopyandi 01

Sutrisno Poltek...



Recording

FISHERIES - Value Chain Analysis



Zoom Meeting participant thumbnails:

- Emma Rochima
- Hari Sukarno_01
- 姜明国
- Windi Damayanti
- Dede Sopyandi 01

Sutrisno Poltek...

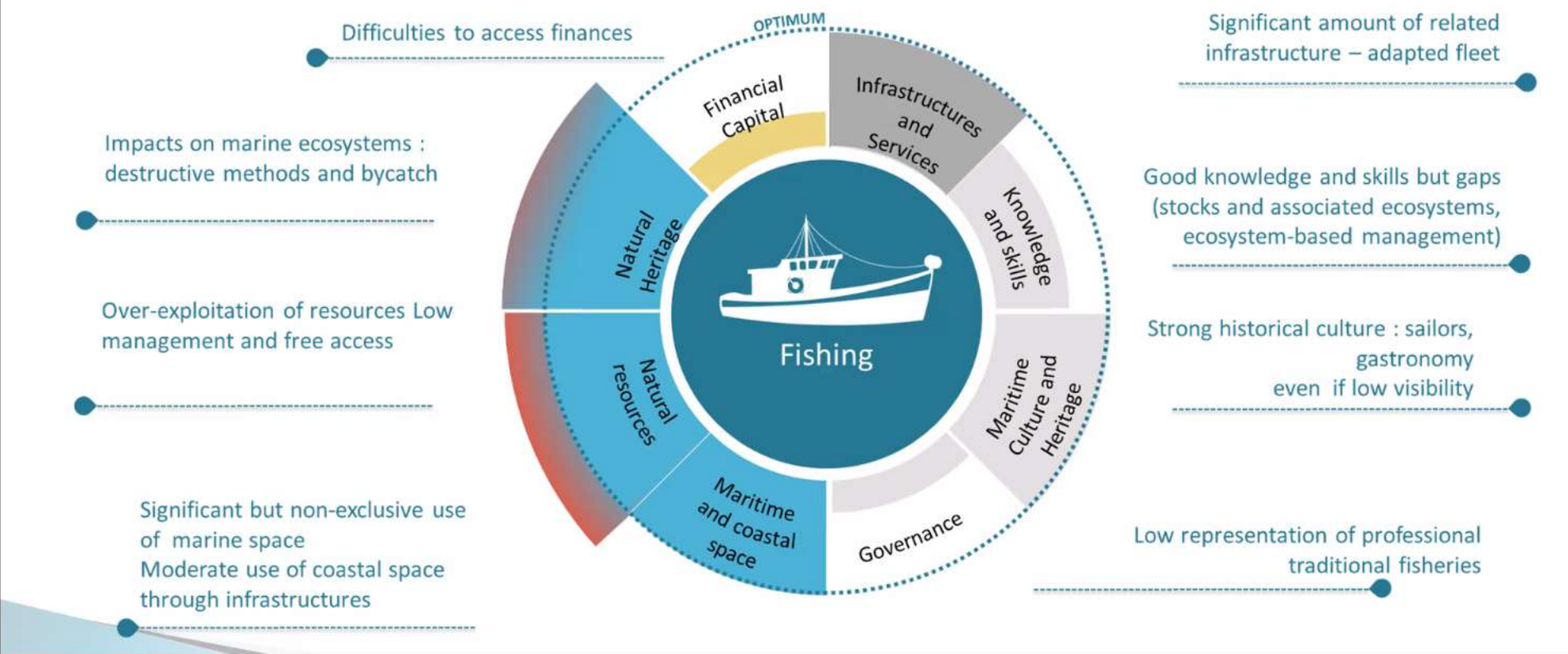
Sutrisno Poltek KP Sda

Recording Original Sound: Off

Syawaludin Alisyahbana Harahap entered the waiting room

[Admit](#) [View](#) [×](#)

FISHERIES - National Capital Analysis



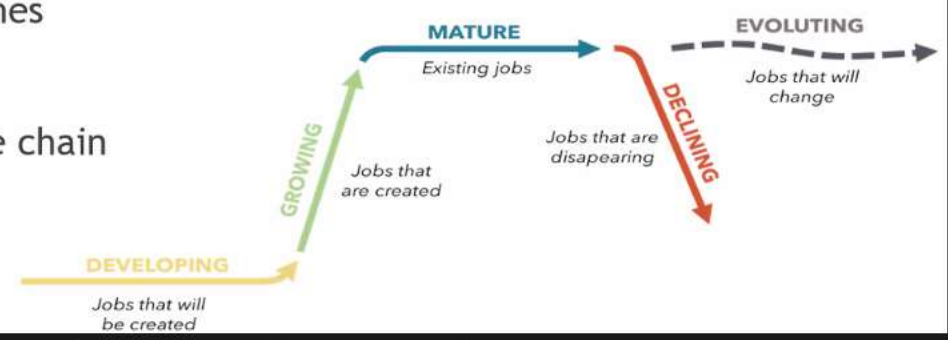
Zoom Meeting controls: Unmute, Stop Video, Security, Participants (42), Chat, Share Screen, Record, Breakout Rooms, Reactions, Apps, More, Leave



Recording Original Sound: Off

Statements

- ▶ Business model of fisheries is based on fish catches of commercial fishes with low price for human or animal consumption.
- ▶ The sector faces with decreasing commercial fishing stocks (overfishing, illegal fishing, unselective fishing, environmental deterioration).
- ▶ In many countries :
- ▶ fishing fleet adaptation and/or fishing practices are requested
- ▶ high /mid employment - what about jobs if less catches
- ▶ good level of infrastructures (ports)
- ▶ National Added value gain more or less along the value chain
- ▶ Fisheries a **mature sector** requesting **adaptation**



Zoom meeting control bar with icons for Unmute, Stop Video, Security, Participants (40), Chat (1), Share Screen, Record, Breakout Rooms, Reactions, Apps, More, and a red Leave button.

Windows taskbar showing search bar, taskbar icons (Edge, Word, Outlook, File Explorer, Mail, Teams, Settings, Zoom), system tray (79°F, 13:34, 17/12/2021), and notification area (17).

Zoom Meeting participant thumbnails:

- Emma Rochima
- Hari Sukarno_01
- 姜明国
- Windi Damayanti
- Dede Sopyandi 01
- Sutrisno Poltek KP Sda

Recording Original Sound: Off

Get the best from limited fishery resources

What is the best way to value these resources through local jobs and local assets?

Situation : Small countries with limited coastline and limited marine areas have only limited fisheries resources.



Strategy	Pros	Cons
1 - Optimize exploitation to maintain low price	« Standard » model, in line with global market requirements Global capital available	Low price at 1 st sale, limited local value (few jobs, most value in downward segment of value chain) Environ. impact (e.g. trawling)
2 - Allocate fish resources to artisanal local fleet for local market	Low investments, many jobs, higher value at first sale, potential synergies (tourism) Low environmental impact	Need for training and (moderate) local investments (fleet, port infras)
3 - Allocate some areas/resources to leisure fishing	Low environmental impact High local value - Potential synergies (tourism, MPAs)	Balance with local professional fishing
MPAs : leisure fishing only Other areas: low impact artisanal fisheries	Better protection, lower environmental impact, best value from limited resources, more jobs (leisure+fishermen) and more value	Need for training and local capital - Common strategy needed with tourism and environmental protection



Emma Rochima



Hari Sukarno_01



姜明国



Windi Damayanti



Dede Sopyandi 01



Sutrisno Poltek KP Sda

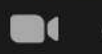


What is the Blue Economy?

- ▶ Sustainable and integrated development of oceanic activities in a healthy ocean
- ▶ Blue Economy covers all economic activity at, near or derived from our oceans, seas and coasts. It includes traditional sectors – such as fisheries, tourism and aquaculture, but also new areas – such as ocean energy, biotechnology or desalination. For example, the EU is a world leader in ocean energy technology and is on track to produce up to 35% of its electricity from offshore sources by 2050.
- ▶ Policies that determine whether the use of oceanic resources is sustainable
- ▶ Both the traditional ocean uses – such as fisheries, tourism, maritime transport – but also new and emerging activities – offshore renewable energy, aquaculture, bioprospecting, etc.
- ▶ Collaboration across nation-states and across the public-private sectors, and on a scale that has not previously been achieved



Unmute



Stop Video



Security



Participants 42



Chat



Share Screen



Record



Breakout Rooms



Reactions



Apps



More

Leave



Type here to search



79°F

13:39
17/12/2021

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One example: The SWIOFish program

- ▶ Aims to improve fisheries management at regional, national and community level
 - Enhanced regional collaboration
 - Improved governance at country-level
 - Increased economic benefits
- ▶ Supports the coordination mechanism that allows SIDS to go beyond fisheries.
- ▶ For instance in the Seychelles:
 - Knowledge on climate & disaster risks related to waste management
 - **Blue Bond** issued to finance the sustainability agenda



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Emma Rochima

姜明国

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Ayu Permata_MIR01

 Irsyadinnas	 Emma Rochima	 Windi Damayanti	 姜明国	 Ayu Permata_MIR01
 Hari Sukarno_01	 Evrina Budiastuti_MIR SP...	 Ani Apriani_MIR SPS UN...	 Ananto Prasetyo	 Widianto_01
 Dominikus Akhadi - MIR01	 Dede Sopyandi 01	 aditya 01	 ferry ando_MIR_01	 teguh firman suryaman
 Santun Pamungkas_MIR 01	 amanah putri MIR 01	 Fildzah amzari_01	 Poltek KP Sidoarjo-Sutris...	 Donny Juliandri Prihadi...
 Nuzulul Rochman	 M Casroni	 Eli	 Diky	 Titin Herawati

1/2

1/2

ING LECTURE
in Management of Finance and Marketing Resources
17th Dec 2021

GRAD SCHOOL

Fildzah amzari_01

Poltek KP Sidoarjo-Sutris...

Donny Juliandri Prihadi...

Nuzulul Rochman

M Casroni

Eli

Eli

UNIVERSITI

Diky

Titin Herawati

Titin Herawati

PUJI LESTARI_MIR 02

PUJI LESTARI_MIR 02

Sekolah Pascasa...

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HUAWEI MatePad Pro

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Cahyo Trianggo...

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Dody Sopian

Dody Sopian

VISITING LECTURE GRADUATE SCHOOL

Sustainable Management of Coastal and Marine Resources
December 17th, 2021

Emma Rochima

Hari Sukarno_01

Irsyadinnas

Windi Damayanti

Dede Sopyandi 01

Ayu Permata_MIR01



View

Recording Original Sound: Off

姜明国

Mute Stop Video Security Participants 44 Chat Share Screen Record Breakout Rooms Reactions Apps More Leave

Type here to search

Windows taskbar with icons for Edge, Word, Outlook, File Explorer, Mail (37), Teams, Settings, Zoom (99), and other system utilities.

System tray: 79°F, 17/12/2021, 13:57, 17



CERTIFICATE

This is certificate awarded to

Prof. Jiang Mingguo

In grateful appreciation and commendation for his invaluable efforts and exemplary lecture of
"Sustainable Management of Coastal and Marine Resources"

Given this 17th Day of December 2021 at Regional Innovation Magister Programme

Universitas Padjadjaran



Dr. Med. Setiawan, dr.
Dean of Graduate School UNPAD