



Introduction of e-Learning platform For MSDI in TRDC



10th MSDIWG Meeting
Busan, ROK, 4~5 March 2019

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Background of e-learning



7th MSDIWG Meeting(2016)

Subject	Action No.	Agenda item	Actions	Responsible	Deadline	Status
e-Learning	08/2016	2.3	Request IHB to establish a URL on its MSDI website pointing towards e-learning facilities provided by Caris, Esri and OceanWise. MSDIWG members to supply links to their e-Learning to IHB.	Chair /IHB	09/2016	Ongoing



8th MSDIWG Meeting(2017)

F.2	Support development and delivery of e-learning platforms	L	<ol style="list-style-type: none"> 1. Coordinate activities with East Asia TDRRC 2. Compile list of existing e-learning modules relevant to MSDI 	2018	2020	Ongoing	Esri OceanWise GSDI		
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9th MSDIWG Meeting(2018)

Action 25/2018: Esri and OceanWise to provide links to their e-Learning sites.	Teledyne CARIS, Esri, OceanWise	
Action 26/2018: RoK to prepare proposal for the provision on an e-learning platform for the MSDI BoK for MSDIWG 10.	RoK IHO Secretariat	

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Introduction of TRDC(I)

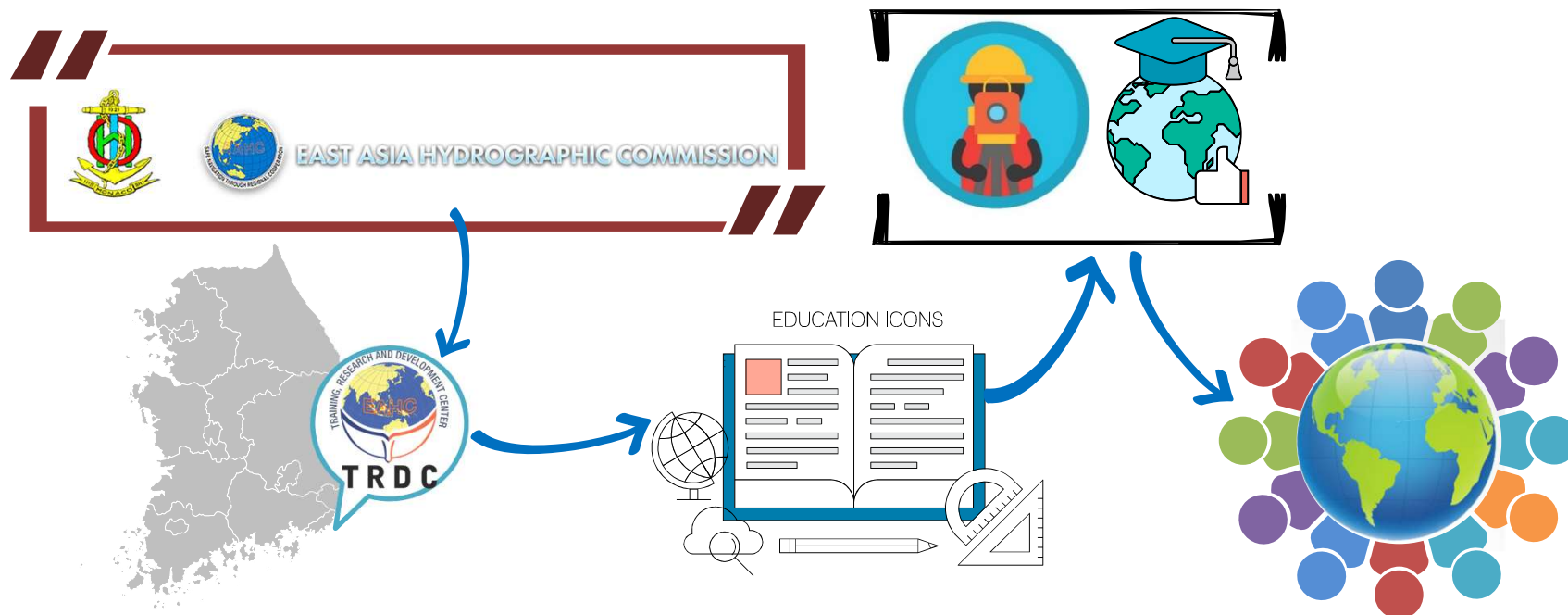
Objectives



TRDC

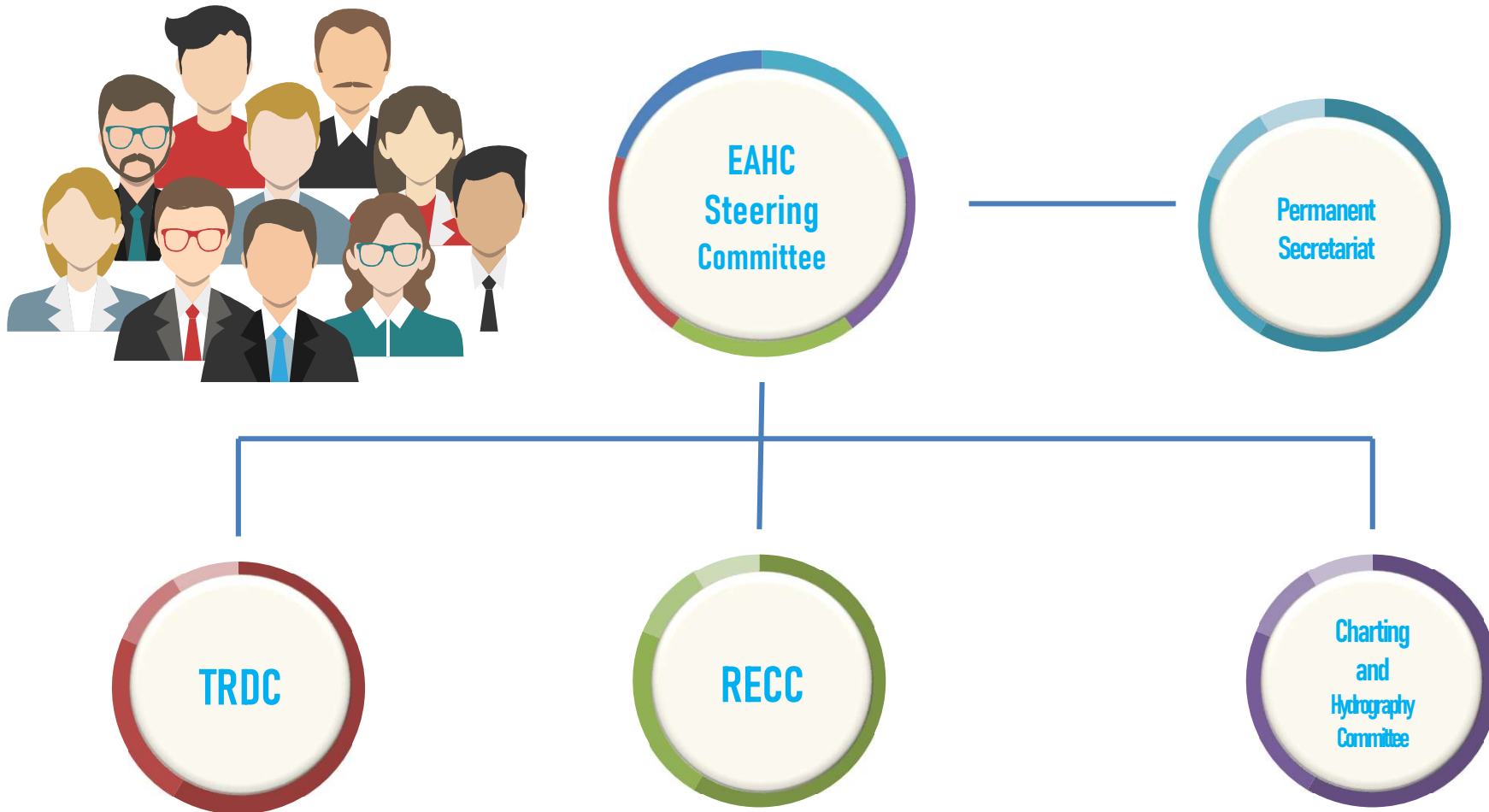
**Training Research
Development Center**

- Approved the establishment of TRDC in Korea in EAHC Coordination Meeting in January 2013
- Develop and implement identified training programs
- Capacity building and training for Hydrographic surveyors and Nautical cartographers of IHO member states



I Introduction of TRDC(2)

Organization



2

Features of e-Learning(I)

Strengths

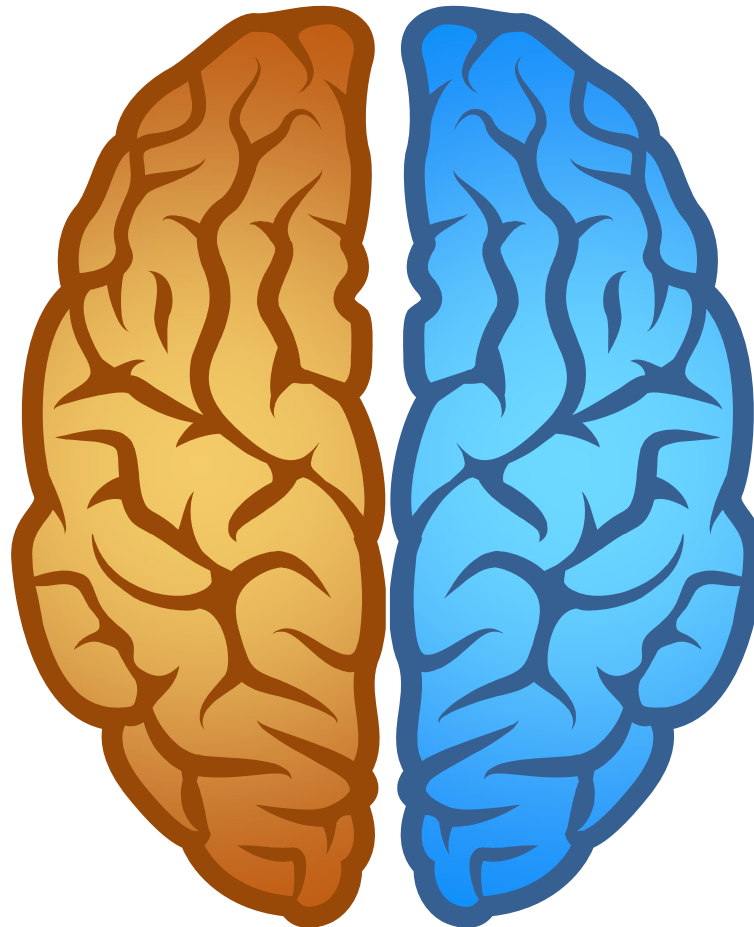
- No restrictions on time and place
- Great effect on low cost
- Customizing the training course according to individual capability
- Reflect the latest trends and theoretical changes
- Self-directed learning rather than cramming education
- Saving the direct expenses by reducing facility cost such as lecture rooms
- Interesting multimedia education
- Various education methods such as two-way instruction
- Saving the time and money for both students and instructors



Old Day's Memory

- “Central Nervous System”
- We used to use the book, managed by a teacher store the knowledge in our memory, and retrieve them as required.
- It was an educational system of memorization and spoon-feeding of information.

Memory – The Brain



Today's Memory

- “Digital Nervous System”
- The knowledge is downloaded.
- The teacher is a full-time facilitator to manage information and construct knowledge to deliver skills.



Traditional Learning

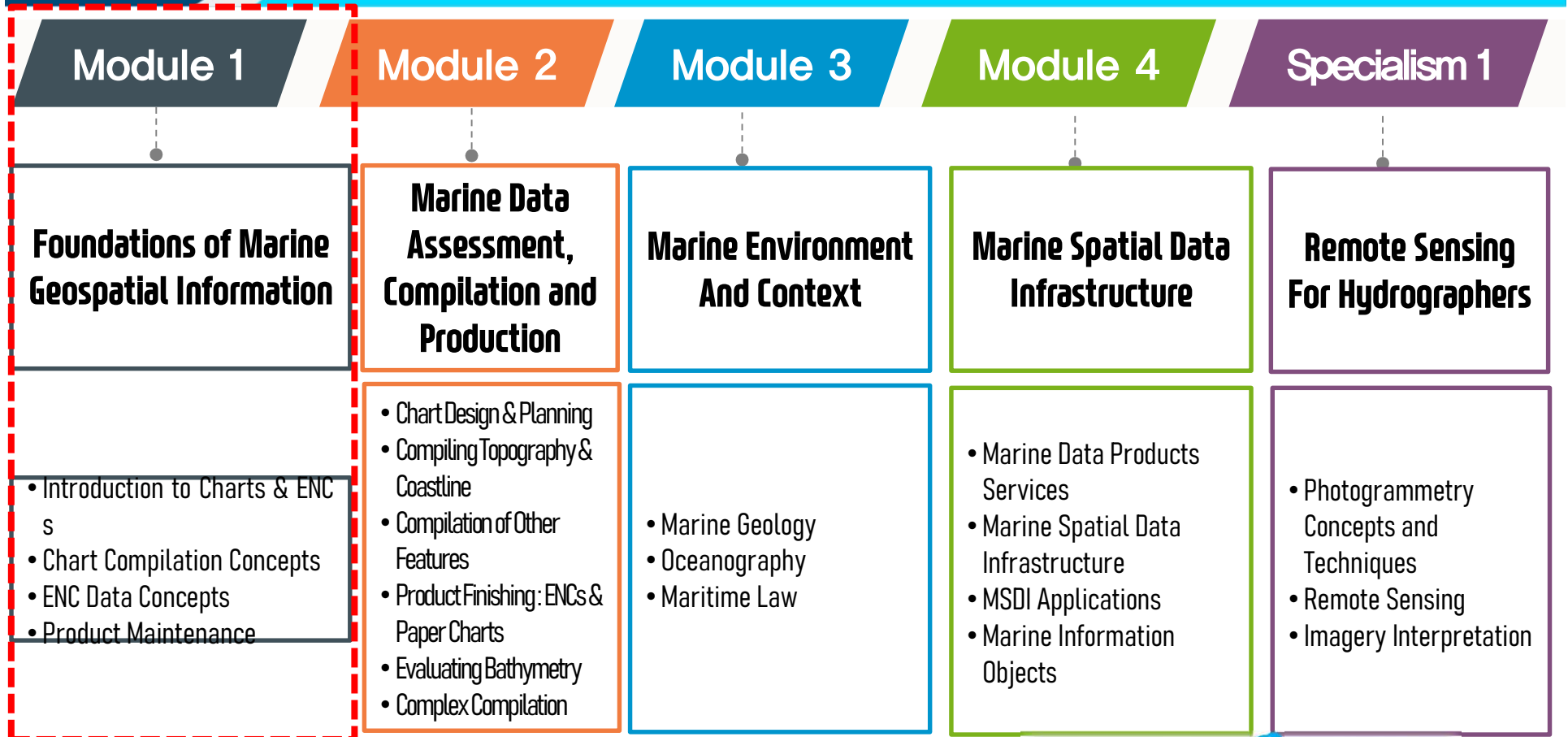
- Teacher Centered
- Single Media
- Isolated Work
- Information Delivery
- Factual-based Learning
- Bricks & Board
- Push approach

e-Learning

- Student Centered
- Multimedia
- Collaborative Work
- Information Exchange
- Skills-based learning
- Technology-enabled learning
- pull approach

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TRDC Education course_ S8-Cat B

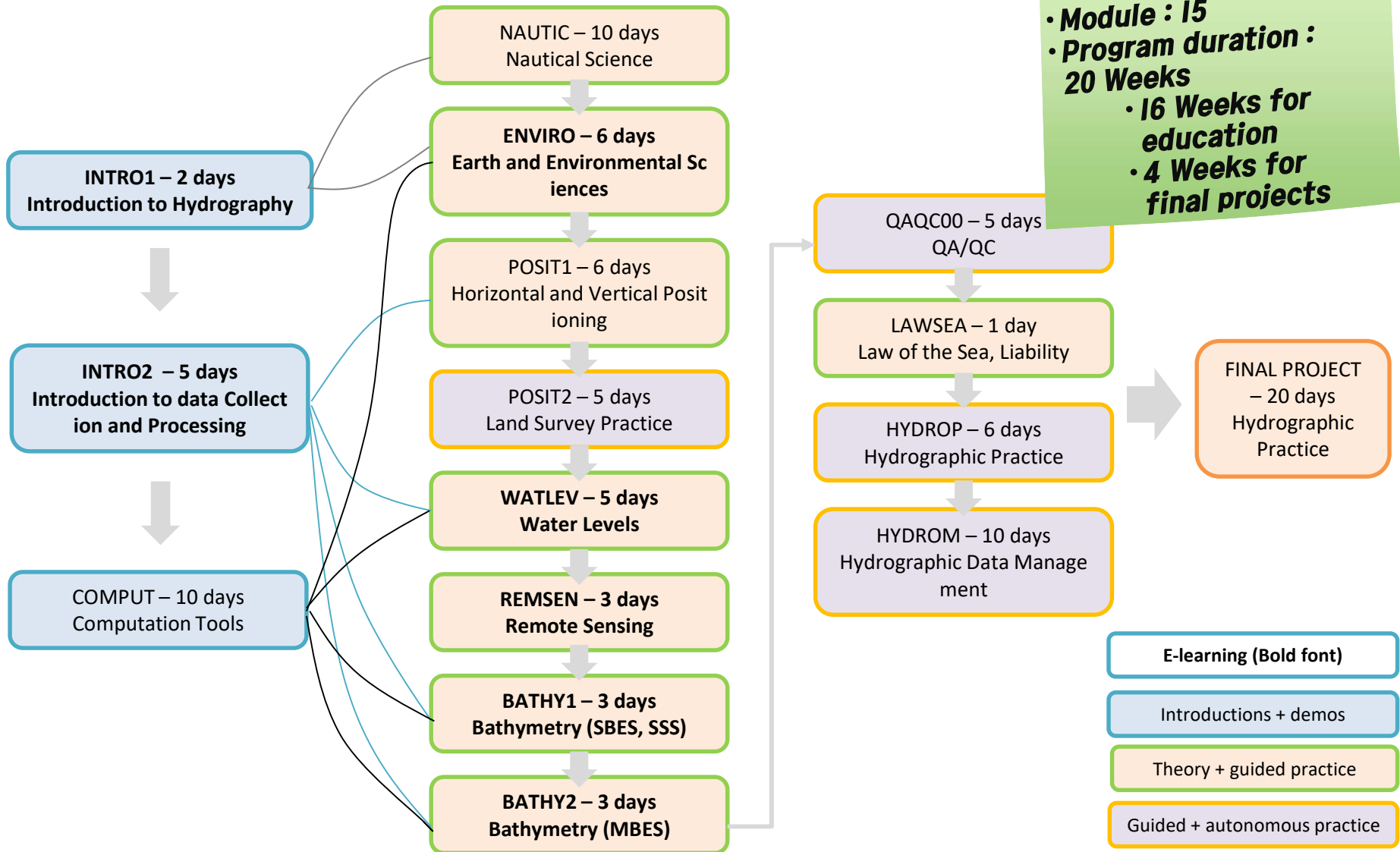


e-Learning

- **Program duration : 26 weeks**
- **20 weeks for education**
- **6 weeks for final project**

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TRDC Education course_ S5-Cat B



3

e-Learning education course

15 Units (Applies to offline 4 weeks)

S-8B Foundation of Marine Geospatial Information

Topic	#	Class
An Introduction to Charts and ENCs	1	The Use of Nautical Charts and Publications
	2	The International Framework, Standards and Specifications
	3	ENCs, ECS and ECDIS
	4	The Design of Charts and ENCs
	5	Source Material for Chats and ENCs
Chart Compilation Concepts	6	How Chats are Constructed
	7	Practical Geodesy for Charts and ENCs
	8	Evaluation of Bathymetric Surveys
	9	Sounding selection and contouring
ENC Data Concepts	10	Introducing S-57 and ENC Production
	11	Data Creation and Editing
	12	Validating ENC data
Product Maintenance-Ways of Updating	13	Method of Updating
	14	Notice of Mariners
	15	Notice to Mariners Block Exercise

S-5B Foundation of Hydrograph Survey

Topic	#	Class
Introduction	1	Introduction to Hydrography
Environmental Sciences	2	Meteorology
	3	Oceanography
	4	Marine Geology
Water Levels	5	Tidal theory
Positioning	6	GNSS Concepts
Bathymetry	7	Underwater Acoustics 1/2
	8	Underwater Acoustics 2/2
	9	Single Beam echo sounders
	10	Side scan sonars
	11	Other systems
	12	Multibeam fundamentals
	13	Multibeam Practical
Remote Sensing	14	Remote Sensing Principles
	15	LiDAR application

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TRDC e-Learning

Accessible through TRDC website(URL: <http://trdc.eahc.asia/>)

log-out Mysage korean sitemap

e-learning Video Clip Library News about TRDC BOD Forum ENC Pilot

TRDC e-learning

Even through the online e-training they are provided

Members log-in

welcom to hykang@koha.or.kr LOGOUT

MY PAGE

About TRDC

Introduction

Our TRDC e-learning welcomes you to our center, electronic.

Lectures

Introduction of the INT chart web s...
International Hydrographic Organization (IHO) has built a da...

IHO DRTC
IHO Digital Reference Tool for Cartographer

TRDC e-learning

관리자 메뉴 접속
관리자_여님 Welcome | Message 0 | Logout

My Page Studnet Services Notice/News Course Registration

NOTICE

- L O #
- NOTICE
- hkhki

NEWS

- NEWS

STUDY COURSE

No	Course Name	Learning period	The remaining days	Information	Courses view
1	Foundations of Marine Geospatial Information (해양공간정보의 기초)	17/11/03 - 17/11/23	14day	view	view
2	Foundations of Hydrographic Survey (수문측량의 기초)	17/11/03 - 17/12/23	44day	view	view

S5-Cat B Demo



Episode 1

Introduction to Hydrography

☰ MENU




TRDC *e-learning*

00:00 | 00:11



S8-Cat B Demo

Unit1.1 The Use of Nautical Charts and Publications www.BANDICAM.COM Beginner Trainee Cartographer Expert Master

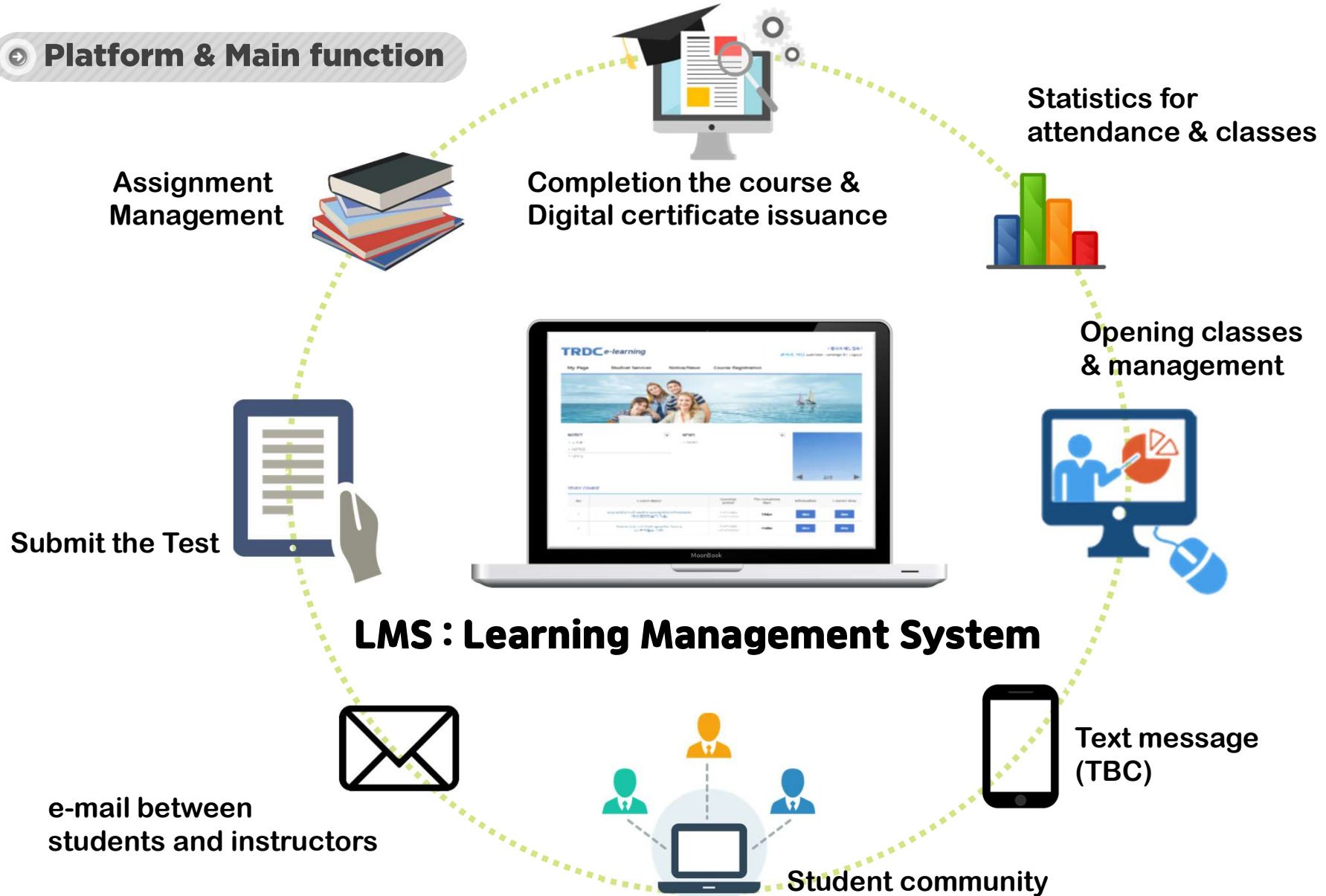


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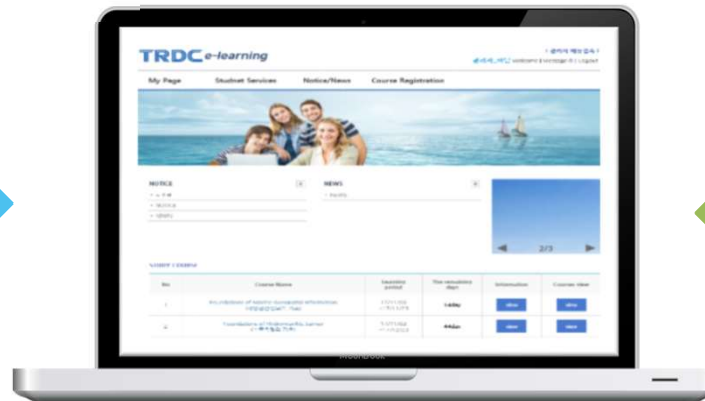
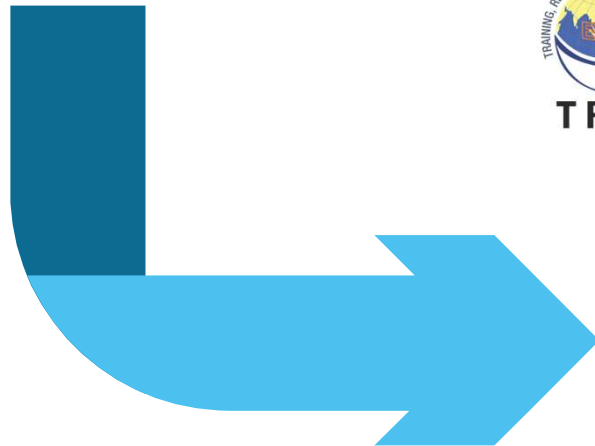
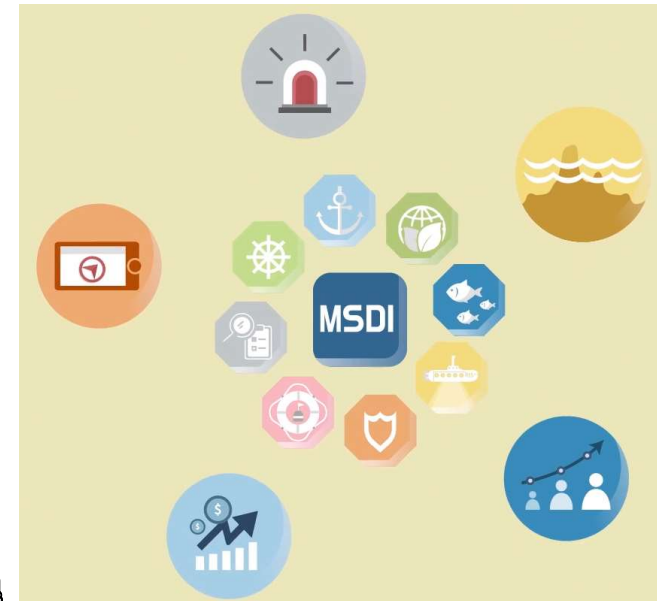
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TRDC e-Learning LMS

Platform & Main function



5 MSDI & TRDC e-Learning System



TRDC e-Learning System

Conclusions

- ROK proposes utilizing the TRDC e-learning platform for MSDI e-learning service.

Recommendations

- The MSDIWG is recommended to use the TRDC e-learning platform, as it may seem fit for MSDI e-learning contents and save the cost & time for establishing MSDI e-learning platform.

Justification and Impacts

- TRDC e-learning platform will provide high quality and knowledge about MSDI e-learning service for the implementation and technical development of MSDI around the world.

Action Required of MSDIWG

- The MSDIWG is invited to
 - a. Discussion
 - b. Agreement of the members



THANKS!