

FINDINGS GOTTEN THROUGH NMMST

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TUMSAT DEPARTMENT OF MARINE ELECTRONICS
AND MECHANICAL ENGINEERING

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海外探検隊



Park area

IMAX 3D

Local search
building

WHAT IS NMMS

NATIONAL MUSEUM OF MARINE SCIENCE & TECHNOLOGY

Chaojing Ocean
Center

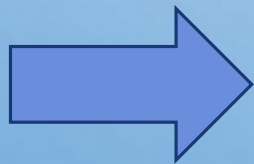
Museum

Traffic service

OBJECT OF THE MUSEUM

Science and Technology

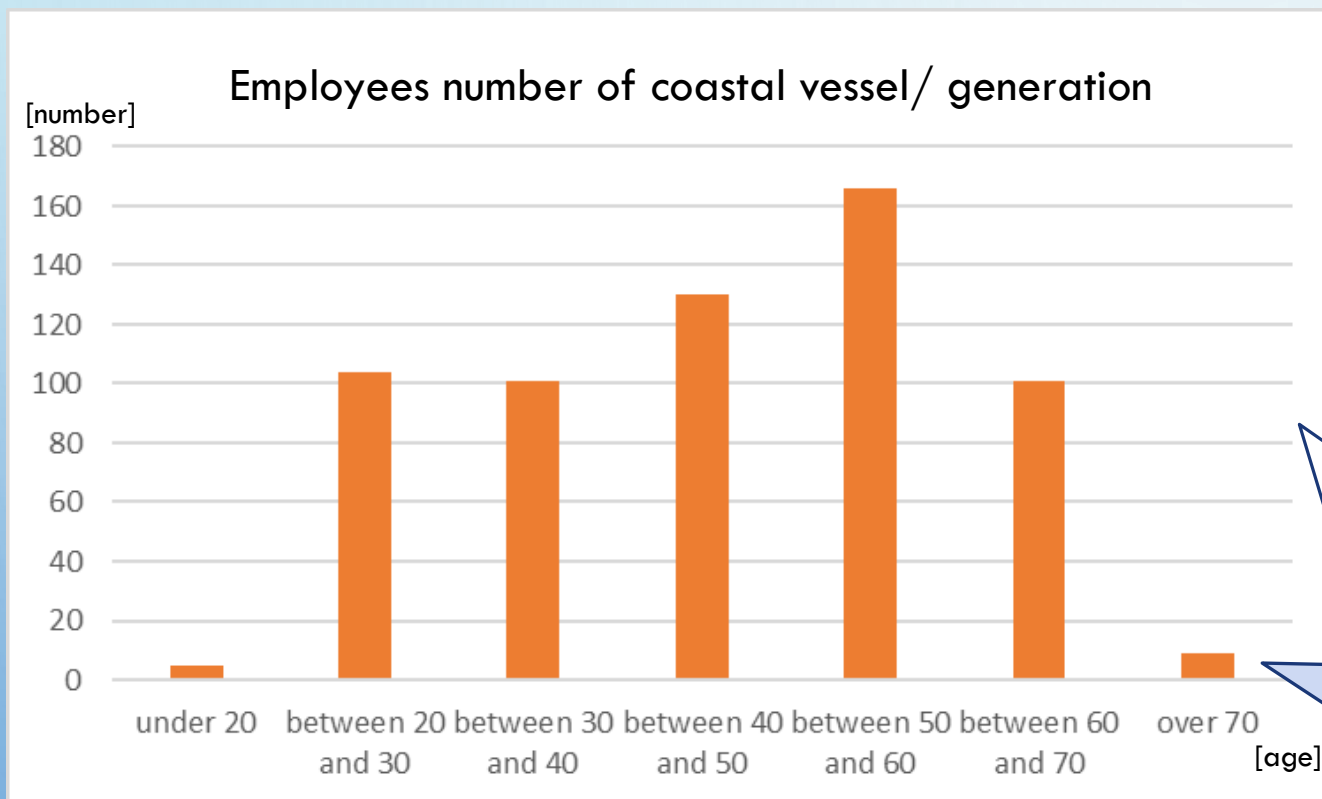
- ① **To tell** knowledge
 - Services to the whole nation
 - To achieve interests of the nation
- ② **To expand** Knowledge



To the next generation



PROBLEMS



H29.05.02 Ministry of Land , Infrastructure and Transport
the Tohoku Transportation Bureaus

In Japan

A decrease in employees number
has been concerned because of
aging



Is the tendency seen
in two ?

Making the opportunity having the
young generation be interested

PRESENT GALLERY OF SHIP AND MARINE ENGINEERING

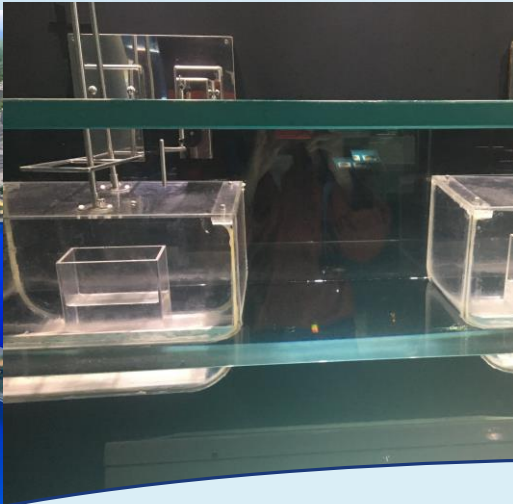
target

... High school student and College student
who has basic knowledge

to the eyes

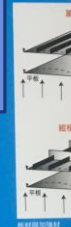


to sense of
touch



一些型鋼，這塊鋼板抵抗彎曲的剛度就會變大，板的彎曲變形會因此而減小。若在這塊鋼板上再鋪裝橫向交叉的構件，則鋼板上的彎曲變形就更小。因此船體結構基本上都是由板和鋪裝在板上的縱橫交叉構件(船體結構中通常稱為肋架結構或縱橫)所組成。加強船殼板的骨架結構系統，一般都是沿著船寬或船深(橫向)方向與船長(縱向)方向布置，在船寬方向裝置的骨架稱為橫向肋骨，沿船長方向裝置的骨架則稱為縱向肋骨。

A ship's hull consisting only of watertight plates is not strong enough because the steel plates are easily when external forces are exerted on them. When a ship's structure is basically composed of plates and a crisscross pattern onto the plates, the stiffened plate will become stiffer and decrease the bending deformation systems used to strengthen the hull are usually arranged transversely along the direction of ship's longitudinally along the ship's length.



How does it seem in the
generation except them ?



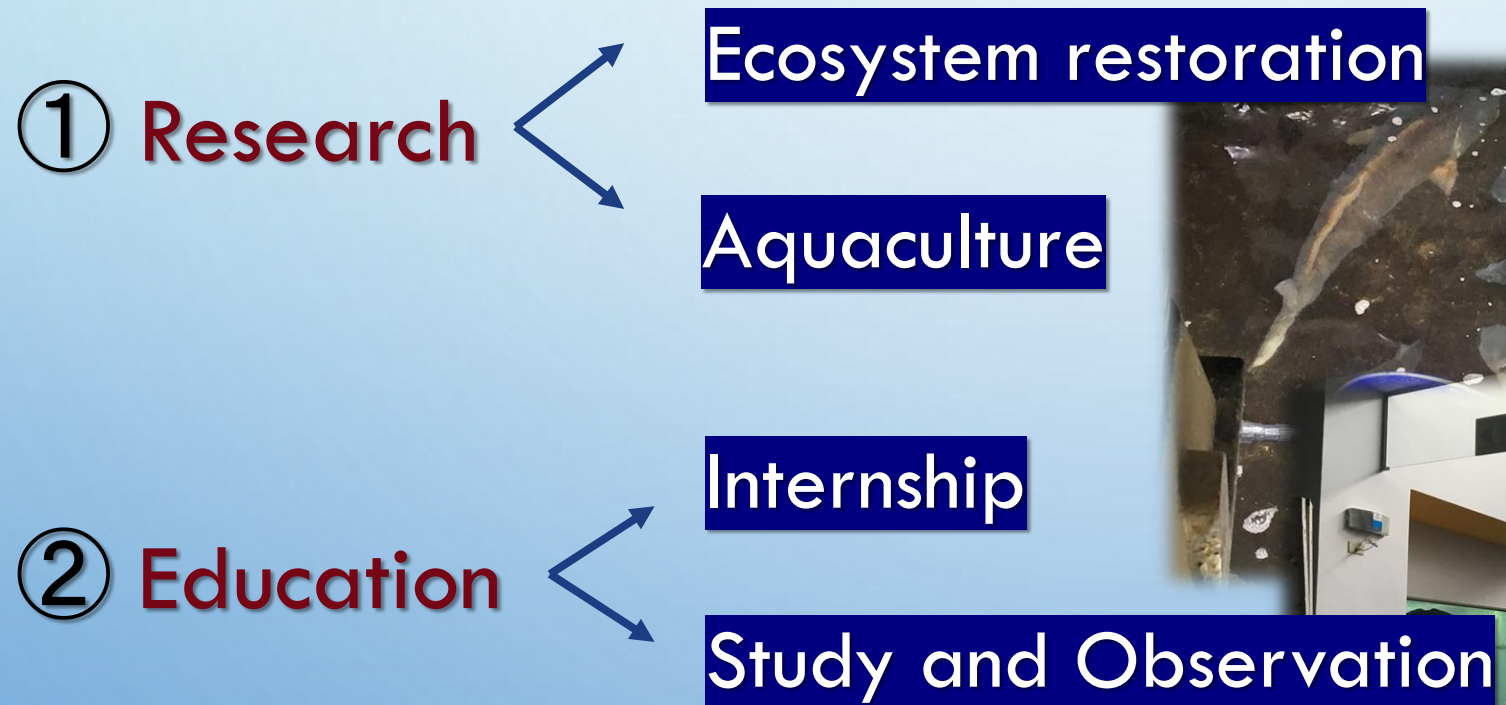
GALLERY OF SHIP AND MARINE ENGINEERING IN THE FUTURE

① the display make use of regionality



② the display a small child understands
ex) detailed explanation of experiment

WHAT IS CHAOJING OCEAN CENTER?



MAINTENANCE TRAINING

The real training...

Water
exchange

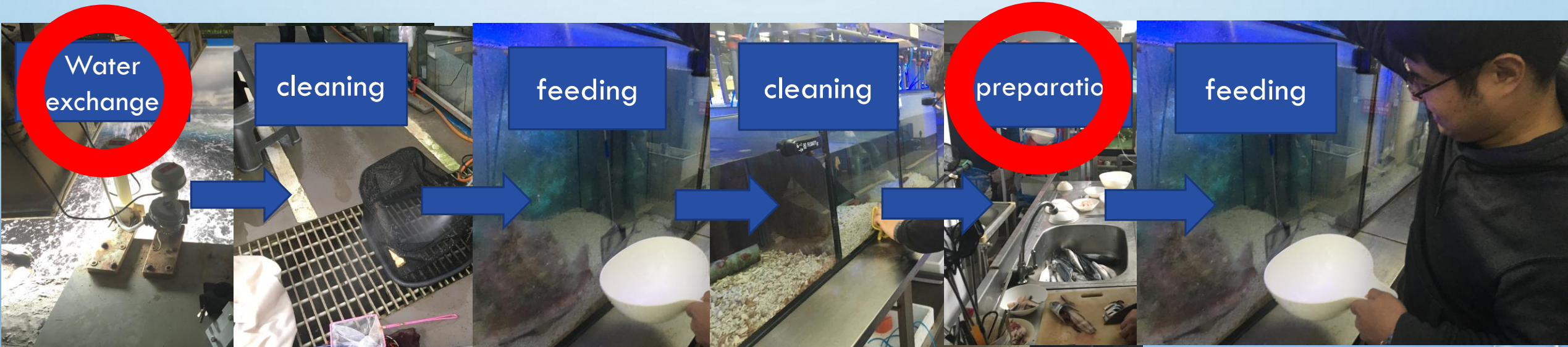
cleaning

feeding

cleaning

preparation

feeding





← Water exchange

Preparation →



MY FINDINGS

Theory
Experience

Both theory and Experience is important

But the question is left last...

Why was NMMST built here?