Aiming to create a hub city of shipbuilding culture and shipbuilding industry cluster core hub

'Shipbuilding Industry Promotion Vision of Onomichi City'

In March 2012, the City of Onomichi drew up its Shipbuilding Industry Promotion Vision of Onomichi City. The goal of this plan is to assure that the shipbuilding and marine equipment industries, two of Onomichi's core industries, remain competitive into the future, and to maintain and develop them into industries that are able to continuously provide support to the city's economic development. The plan gives two future visions for the city, namely a 'sustainable and competitive shipbuilding industry core hub' and a 'hub city of shipbuilding culture', and states that the public and private sectors will work more closely together in an effort to realize those visions.

Given changes to the shipbuilding industry environment, the City of Onomichi set up a public-private exploratory committee in October 2011, which compiled the Shipbuilding Industry Promotion Vision of Onomichi City based on analyses of official research data and questionnaires given to various local business operators.

According to that Vision, looking at the City of Onomichi's industrial composition by number of employed workers indicates that 32.9% work in secondary industries, to which shipbuilding belongs, making it one of the highest percentages in all of Hiroshima prefecture. The manufacturing industry, to which shipbuilding belongs, makes up approximately 70% of Onomichi's entire secondary industry sector, revealing its status as one of the city's important core industries.

Looking at the data by number of businesses, the transportation machinery industry, also to which the shipbuilding industry belongs, saw a decrease in number of places of operation from 90 in 2006 to 75 in 2010. In Onomichi, the percentage fell from 20.5% to 18.2%. By number of employees, the number of workers in the City of Onomichi's manufacturing industry rose from 128,000 in 2006 to 136,000 in 2010. The transportation machinery industry, however, experienced a decrease from 34.1% to 31.2%. This prompted the conclusion that the number of shipbuilding industry workers was falling faster than the number of places of operation.

The yearly production value for Onomichi's shipbuilding industry for 2008 was approximately Y186 billion (about Y110 billion from the shipbuilding industry and Y76 million from the marine equipment industry), meaning that it accounted for almost entirety of the transportation machinery industry and approximately 30% of the entire city. The total induced production value within Hiroshima brought about by production activity of Onomichi's shipbuilding industry is estimated at approximately Y141 billion. Induced production value combines the production spillover of raw materials, parts, and office services within the prefecture with the production spillover of raw materials, parts, and office services related to the consumer goods industry brought on by the increase in employee income. Based on the induced production value figure, it was clear how far-reaching the impact was on all industries in the prefecture, including ships, ship repairs, and steel. Based on the above, Onomichi's shipbuilding industry has an estimated total effect of approximately Y327 billion for the prefecture.

Similarly, it is possible to estimate the induced production value within the City of Onomichi based on the total prefectural induced production value (approximately Y141 billion) by using its portion of employees and cargo value by industry, which results in approximately Y21 billion, indicating that the total effect within the City of Onomichi of Onomichi's shipbuilding industry is an estimated Y207 billion.

The next thing to do was analyze how Onomichi's shipbuilding industry affects tertiary industries. The total spillover to tertiary industries of the prefecture's induced production value (Y141 billion) is approximately Y67 billion, and the total spillover to tertiary industries of the City of Onomichi's induced production value (Y21 billion) is approximately Y10 billion, resulting in an induced production value of about 50%. Tertiary industries that are particularly affected by the shipbuilding industry include automobile and machine repairs, commodity rental services, railway transport, research retail, and offices services such as finance, accounting, wholesale, insurance, and banking. These facts clearly indicate that shipbuilding is a significant industry to the City of Onomichi, prompting the abovementioned future visions for the city, namely becoming a 'sustainable and competitive shipbuilding industry core hub' and a 'hub city of shipbuilding culture'.

The City of Onomichi conducted questionnaires and interviews with various business operators, from which it extracted seven challenges currently facing the city's shipbuilding industry. In order, they are: (1) finding more opportunities to increase order volume by improving shipbuilding facilities, (2) improving competitiveness by streamlining and cutting costs, (3) improving competitiveness by tapping into new categories and markets, (4) improving added-value by advancing research and development, (5) exhibiting more collective strength through inter-corporation collaboration, (6) securing, stabilizing, and fostering sustainable technicians and skilled workers, and (7) creating a mutually beneficial and harmonious relationship with the environment.

The following table of solutions is presenting to tackle these seven challenges with the goal of realizing the abovementioned future visions for Onomichi.

To realize the vision of a shipbuilding industry cluster core hub, 'the city will continue to increase its competitiveness by improving sophistication of both its production and logistics environments, while also improving added-value items such as high credibility and technical prowess through improved partnerships between companies.' To realize the vision of a hub city of shipbuilding culture, 'the city will attempt to boost its regional strength as its foundation for industrial promotion with regard to the Maritime City of Onomichi'. The City of Onomichi plans having the public and private sectors work together in order to achieve these visions.

Solutions & Promoted Projects for the Problems surrounding Onomichi's Shipbuilding Industry [In order to realize "Core Hub for sustainable and competitive shipbuilding industry cluster"]

Directionality of Problem Solutions			Working body	Approaches
Enhancing	Boosting capacity &	Sophistication of well-designed	SB Industry	Scrutiny of necessary production base
competitiveness	efficiency of	production base	-	Securing of necessary production base
by improving	production base		Onomichi city	Support for private reclamation works
production &				Study on request for easing of regulations
logistics				Request for enhanced infrastructure base
environment	Enhancing supply	Function enhancement for coastal	SB Industry	Enhancement of loading/shipping function
	chain by utilizing the	shipping	Onomichi city	Support for training/procurement of coastal shipping seafarers
	sea and bridges	Promotion of port/harbor facilities	SB Industry	Request for related organs
	_		Onomichi city	Request for arrangement/projects of port/harbor facilities
		Promotion of road improvement along	SB Industry	Request for related organs (cut in Honshu-Shikoku Bridge fare)
		Setouchi coast line	Onomichi city	Promotion/advancement of road improvement works
Improvement of	Improvement of	Development of sophisticated	SB Industry	Joint research by marine industry and universities, etc.
added value by	added value by	specifications	Onomichi city	Creation of matching opportunities
reinforcing	enhancing R&D			Dispatch of information on advanced cases/various systems
partnerships	capabilities	Upgrade of production technology	SB Industry	Study on business integrations/alliances
		and facilities	Onomichi city	Creation of matching opportunities
				Support for securing industrial site along coastlines
	Improvement of	Creating manuals/offering courses for	SB Industry	Drawing up manuals, providing courses
		accident prevention	Onomichi city	Safety measure enhancement support by using Innochima TC
	enhancing safety	Enhancement/usage promotion of	SB Industry	Enhancement/usage promotion of safety training center
	measures	hands-on safety training facilities	Onomichi city	Safety measure enhancement support by using Innochima TC
	Improvement of	Personnel exchanges and sales	SB Industry	Holding study/research meetings among enterprises
	added value by	promotion within shipbuilding industry		Participating in conventions
	enhancing human		Onomichi city	Support for holding study/research meetings
	resources network			Support for PR activities utilizing conventions, etc.
		Enhancement of manpower supply	SB Industry	Support for facility enhancement at Innoshima Technical Cente
		function at Innoshima Technical	Onomichi city	Support for facility enhancement at Innoshima Technical Cente
[In order to becom	ne "Hub city for shipbui	ilding culture"]		
Enhancement of	Enhancement of	Enrichment of shipbuilding & maritime	SB Industry	Cooperation with media inquiries, provision of materials/data
regional		data library, and dispatch of such	Onomichi city	Enrichment of materials/data libraries
strengths that		information	,	Information dispatch via Maritime City Onomichi Website
support the	education	Promotion of the maritime industry's	SB Industry	Reinforcement of internship
Maritime City		ideas	Onomichi city	Implementing history/culture courses and offshore seminars
Onomichi			,	Implementing maritime learning seminars
				Support for marine school courses
				Promotion of career education
	Enhancement of	Creating shipbuilding city	SB Industry	Yard tours, opening to the public of launching ceremonies
	regional strengths by		,	Foreign trainees' involvement in community activities
	uniting with the		Onomichi city	Creating occasions for regional communication
	region		,	Promoting development of cities where young people settle dow
	Enhancement of	Creating industrial tourism	SB Industry	Nurturing personnel who escort industrial heritage
	regional strengths by	capitalizing on shipbuilding industry's	,	Cooperation with passenger ship associations, etc.
	uniting with tourist	resources	Onomichi city	Support for setting up industrial sightseeing courses
	promotion entities			Support for promotion of passenger ship utilization