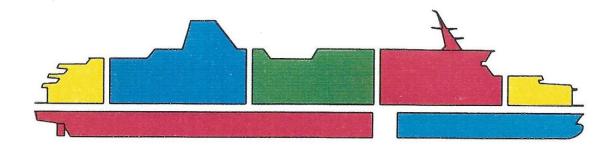
# How to create conditions for competitive new vessel construction for BC Ferries in British Columbia

Martec Marine believes this can be achieved by drawing on past experience gained from building the Spirit Class together with lessons learned from the current new ferry construction program in Europe.

In 1991 Martec Marine was involved in the creation of "Integrated Ferry Constructors", an EPCM Company responsible for the design and construction of the two BCF "SPIRIT CLASS" Ferries.



BLK		BUDGET	% B.C.	B.C.CONTE
NO	DESCRIPTION/SURCONTRACTOR	VALUE	CONTENT	DOLLARS
A	INTEGRATED MODULE FABRICATORS	\$24,500,000	100%	\$24,500,0
8	ALLICO SHIPBUILDERS	\$6,800,000	100%	\$6,800,0
C G	PACIFIC RIM SHIPYARDS	524,733,000	100%	\$24,733,0
	FINAL ASSEMBLY & OUTFIT	\$7,275,116	100%	\$7,275,1
	STEEL PREPERATION/HANDLING/CUTTING	\$1,100,000	100%	\$1,100,0
	120 OVERHEAD SERVICE CONTITACTORS & SUPPLIERS	\$8,515,000	100%	\$3,515,0
	ENGINEERING & PROJECT MANAGEMENT	\$8,254,000	100%	\$8,254,0
	VICTORIA YARD UPGRADE	\$2,300.000	100%	\$2,300.0
	POST COMPLETION COSTS	\$892,000	100%	\$892,0
	MANAGEMENT RESERVE	\$7,275,000	100%	\$7,275,0
		1		



### SUPERFERRY "2"

WITY "INTEGRATED FERRY CONSTRUCTORS LID."

#### THE PUBLIC BENEFITS AS IT

Fulfils a publicly stated B.C. Government commitment



- Provides in excess of 1,200,000 direct subcontractor manhours plus supervision, support staff, and engineering project management
- Injects a much needed \$100,000,000 directly into the B.C. Economy with the resulting multiplication effect
- Spreads work widely throughout B.C. industry
- Contributes to the successful rationalization/improved efficiency and capacity to enable R.C. industry to participate in large shipbuilding projects
- Will continue the development of shipbuilding talent in B.C. by transfer of technology from IFC to industry
- Fulfils public expectations following delivery of Superferry "1"
- Provides for union harmony and continuity of work for the shipbuilding industry to early 1994



6,644,116 100% \$86,644,116

8,644,116 | 100% S86 2,575,415 | 44% 514

9.219.581 85% \$1







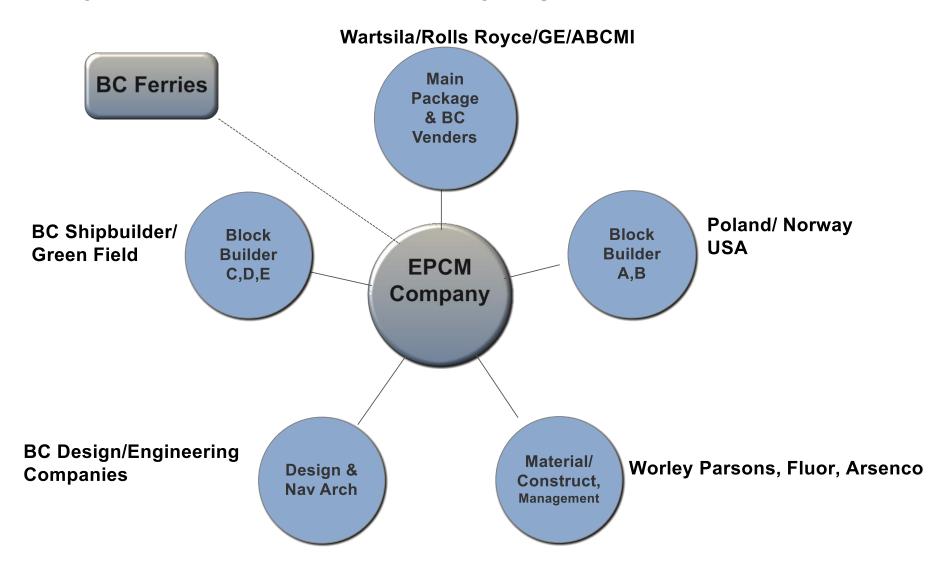
## The conditions necessary to make a major contribution to the construction of future BC ferries:

### Challenges

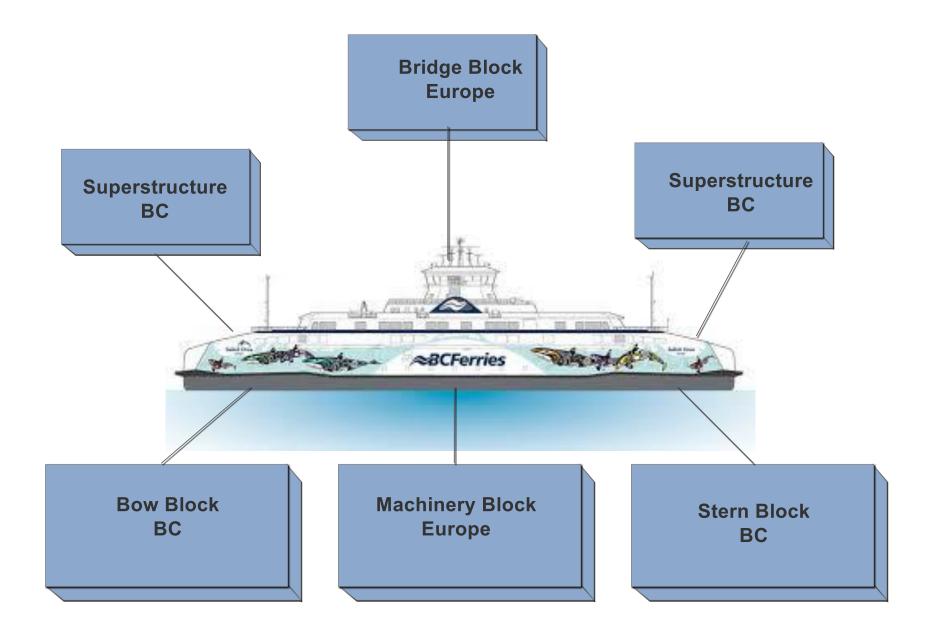
- Capacity for steel construction and final outfit *Mix of offshore & local blocks/modules*
- Management of a large ferry design and construction
   Create EPCM Company to manage the project
- Competition from Europe
   Do as they do, sub out steelwork
- Labour resources and skill sets

  Attract labour as part of the team, share resources, cross train
- RISK
   Shared between Government, Main Package Vender, EPCM Company & Block/Module Suppliers

### **Ferry Construction EPCM Company Organization Concept**









## Yes we can do it

- We have the knowledge
- We have the desire
- We have the courage to take calculated risk
- We have the ingenuity

