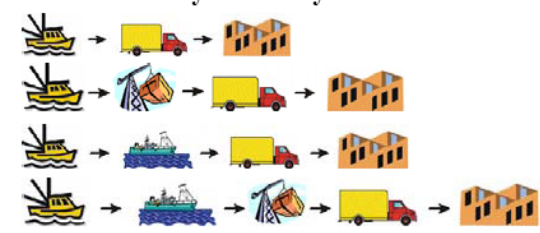
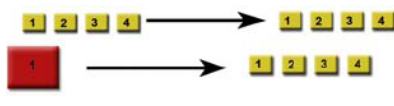


<p><b>Fishery:</b> <i>Red and Green Sea Urchin by Dive</i></p>	<p><b>State of Readiness Assessment:</b> <b>Total Score =</b> <b>A-</b></p>
<p><b>Fishery Overview:</b></p> <ul style="list-style-type: none"> <li>• Individual vessel quota.</li> <li>• Red sea urchins are open year round and green sea urchins are fished in the winter. Effort is based on roe quality and market demand.</li> <li>• Fishing occurs in nearshore areas of the BC coast.</li> <li>• Catch consists of red and green sea urchins (separately licenced fisheries).</li> <li>• Pooling does not occur.</li> <li>• Vessels are paid based on roe quality.</li> <li>• Batch =offload, Trade unit=tote, cage (green urchins), Logistic unit=tote, cage(green urchins).</li> <li>• Pacific Urchin Harvesters Association (PUHA) represents the red sea urchin industry and West Coast Green Urchin Association (WCGUA) represents the green sea urchin industry.</li> </ul>	
<p><b>Chain of Custody Pathways</b></p>  <p>The diagram shows four pathways: 1. Vessel to truck to plant. 2. Vessel to harvester to truck to plant. 3. Vessel to harvester to truck to plant. 4. Vessel to harvester to truck to plant.</p>	<p><b>Unit Transformations</b></p>  <p>The diagram shows a red block with '1' transforming into a row of four yellow blocks labeled '1', '2', '3', and '4'.</p>
<p><b>Market/s:</b></p> <ul style="list-style-type: none"> <li>• Market is primarily for fresh roe (red urchins) and whole live (green urchins) to Japan. Small markets exist in France, US, Asia and Canada.</li> <li>• Live sea urchins are delivered by harvesters to buyers.</li> <li>• Product quality concerns are based on roe colour, size and texture.</li> <li>• Japanese traceability regulations are not yet developed although some chain retailers in Japan are increasing their traceability requirements.</li> </ul>	

<p><b>Product and Business Data Availability:</b> Traceability data is currently collected through the following processes.</p> <table border="1"> <tr> <td> <p><b>Harvester</b> Harvest/Validation Record – skipper and MSP</p> </td> <td> <p><b>Custom Offloader</b> Validation/Harvest Log – skipper and MSP Offload Tally – custom offloader</p> </td> <td> <p><b>Transporter</b> Validation/Harvest Log – skipper and MSP Offload Tally – custom offloader Bill of Lading – transporter</p> </td> <td> <p><b>Buyer</b> Validation/Harvest Log – skipper and MSP Offload Tally – custom offloader Bill of Lading – transporter Delivery Record – buyer Processing Records – buyer Sales Records - buyer</p> </td> </tr> </table>		<p><b>Harvester</b> Harvest/Validation Record – skipper and MSP</p>	<p><b>Custom Offloader</b> Validation/Harvest Log – skipper and MSP Offload Tally – custom offloader</p>	<p><b>Transporter</b> Validation/Harvest Log – skipper and MSP Offload Tally – custom offloader Bill of Lading – transporter</p>	<p><b>Buyer</b> Validation/Harvest Log – skipper and MSP Offload Tally – custom offloader Bill of Lading – transporter Delivery Record – buyer Processing Records – buyer Sales Records - buyer</p>	<p><b>Score = 1.5</b></p>
<p><b>Harvester</b> Harvest/Validation Record – skipper and MSP</p>	<p><b>Custom Offloader</b> Validation/Harvest Log – skipper and MSP Offload Tally – custom offloader</p>	<p><b>Transporter</b> Validation/Harvest Log – skipper and MSP Offload Tally – custom offloader Bill of Lading – transporter</p>	<p><b>Buyer</b> Validation/Harvest Log – skipper and MSP Offload Tally – custom offloader Bill of Lading – transporter Delivery Record – buyer Processing Records – buyer Sales Records - buyer</p>			
<p><b>What product or business data is missing?</b> Transport firm, data access contact persons (data responsible party) for the harvester, buyer and transporter.</p> <p><b>Is the data electronically accessible to the supply chain?</b> No. Paper validation records are maintained by the harvester. A confidential electronic database is maintained by the MSP.</p> <p><b>Is the data verifiable?</b> Yes, through 100% dockside validation.</p>						
<p><b>Product Identifiers:</b> Unique trade and/or logistic unit identifiers are not used. Cages or totes of product may be tracked to harvester.</p>		<p><b>Score = 2</b></p>				
<p><b>Data Transfer and Information Mapping:</b> Current data systems are paper based with validation records that accompany deliveries to the buyer.</p>		<p><b>Score = 2</b></p>				
<p><b>Industry Leadership:</b> One association represents industry.</p>		<p><b>Score = 1</b></p>				
<p><b>Processor Level Constraints:</b></p>		<p><b>Score = 1</b></p>				
<p><b>Factors impeding ability to meet traceability:</b></p>	<p><b>Factors aiding ability to meet traceability:</b></p> <ul style="list-style-type: none"> <li>• An industry wide landings data system is in place through 100% dockside validation.</li> <li>• Most of the required information is collected on paper and stored electronically(MSP).</li> <li>• IQ fishery regime allows market driven fishing and time for specialized product handling.</li> <li>• Single species fishery.</li> <li>• Number of sea urchin buyers is limited.</li> <li>• No unit transformations occur from water to buyer.</li> <li>• Container tags are required on every container transported.</li> </ul>					
<p><b>Opportunities:</b>  <b>Goal 1</b> – Traceability to a container level.  <b>Goal 2</b> – Good candidate fishery for a pilot project.</p> <ul style="list-style-type: none"> <li>• Identify containers with trade unit identifiers.</li> <li>• Integrate existing data systems and streamline data transfer through the supply chain for more efficient and timely data communication.</li> </ul>						

MSP = Monitoring Service Provider