



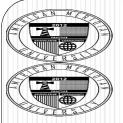


#### SIPOOC

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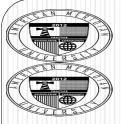


## Learning Objectives



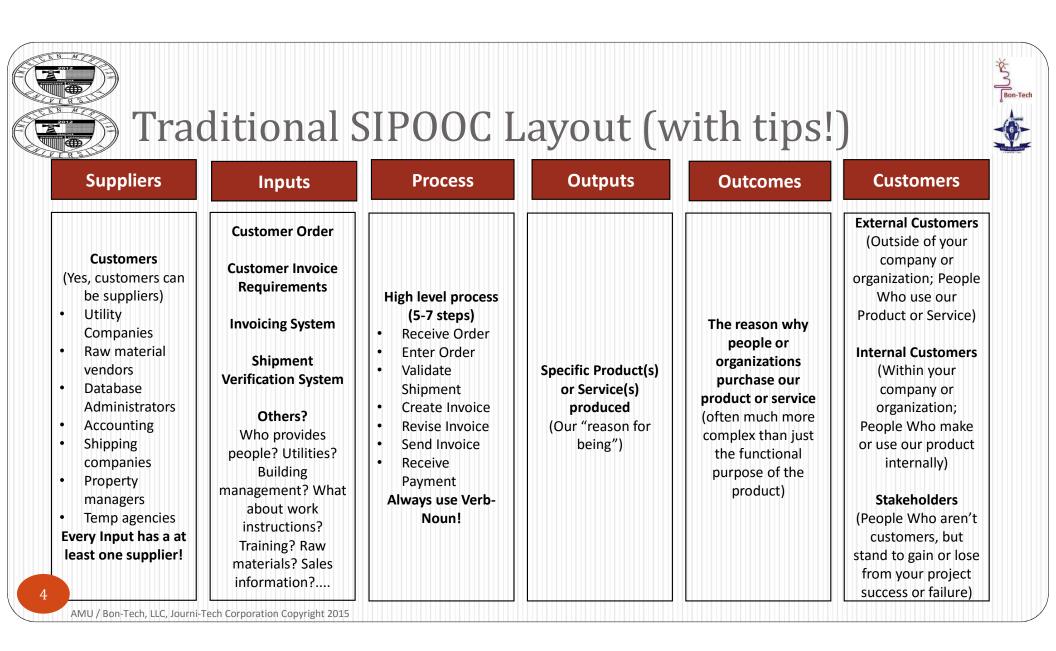
Upon successful completion of this module, the student should be able to:

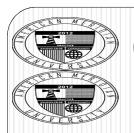
- Understand the components of a SIPOC Diagram
- Develop a SIPOC
- Understand the relationship between SIPOC and Key Metrics



### SIPOC Overview – High Level

- Acronym meaning:
  - Suppliers (Who gets us what we need)
  - Inputs (What we need to make it)
  - Process (How we make it)
  - Outputs (Products or Services)
  - Outcomes (Results)
  - Customers (Clients)
- Represents the chain of elements to put a service or product into customer our customers' hands
- The heart of any SIPOOC is "IPO". Suppliers help us to think about upstream Inputs, while Customers help us think about downstream Outputs.
- Best Practice: Always consider including "Supplier" and "Customer" representatives on your team

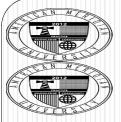




#### Customers

- Tip: Try the "People who..." approach when brainstorming
- Eg. People who use the process, product, or service (external customers)
- People who buy the product (may or may not be the same as those who use it!)
- People who make the product. People who care about the product. People who hate the product.... Feed the brainstorm!

S	I	Р	0	Ο	С
					<ul> <li>Accounts receivable</li> <li>Client companies</li> <li>Individual clients</li> <li>Stockholders</li> <li>Our employees</li> <li>The shipping department</li> </ul>
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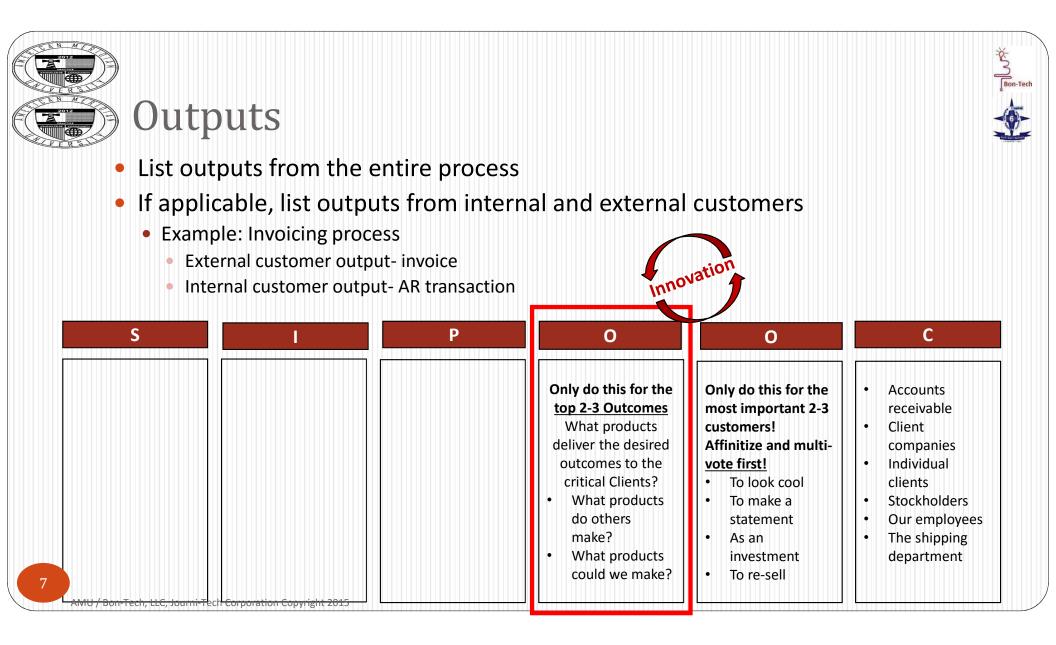
#### Outcomes

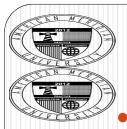
 Why do people purchase your product (what are they trying to accomplish or experience?)

No one does this... but they should i

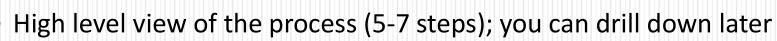
• Why do people choose you over your competitors – or the other way around!

S		P	0	Only do this for the most important 2-3 customers! Affinitize and multi- vote first! • To look cool • To make a statement • As an investment • To re-sell	C <ul> <li>Accounts receivable</li> <li>Client companies</li> <li>Individual clients</li> <li>Stockholders</li> <li>Our employees</li> <li>The shipping department</li> </ul>
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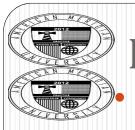
# Process



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- List steps sequentially
- Always use Verb-Noun! Why?

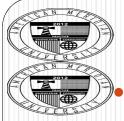
S	I	Р	Ο	0	С
8	Corrowration Convrigint 2015	Receive Order Enter Order Validate Shipment Create Invoice Send Invoice Revise Invoice Receive Payment	<ul> <li>Only do this for the top 2-3 Outcomes</li> <li>What products</li> <li>deliver the desired</li> <li>outcomes to the</li> <li>critical Clients?</li> <li>What products</li> <li>do others</li> <li>make?</li> <li>What products</li> <li>could we make?</li> </ul>	Only do this for the most important 2-3 customers! Affinitize and multi- vote first! • To look cool • To make a statement • As an investment • To re-sell	<ul> <li>Accounts receivable</li> <li>Client companies</li> <li>Individual clients</li> <li>Stockholders</li> <li>Our employees</li> <li>The shipping department</li> </ul>



#### Inputs

- List things that go into the process
- Physical objects
- Information
- Factors that influence the process

S	l	Р	Ο	0	С
	Customer Order	Receive Order Enter Order	Only do this for the top 2-3 Outcomes	Only do this for the most important 2-3	Accounts     receivable
	Customer Order	Litter Order	What products	customers!	Client
	Customer Invoice Requirements	Validate Shipment	deliver the desired outcomes to the	Affinitize and multi- vote first!	companies • Individual
		Create Invoice	critical Clients?	To look cool	clients
	Invoicing System Shipment	Send Invoice	<ul> <li>What products do others make?</li> </ul>	<ul> <li>To make a statement</li> <li>As an</li> </ul>	<ul> <li>Stockholders</li> <li>Our employees</li> <li>The shipping</li> </ul>
	Verification	Revise Invoice	What products could we make?	investment • To re-sell	department
9		Receive Payment			
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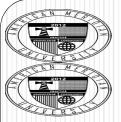


# Suppliers

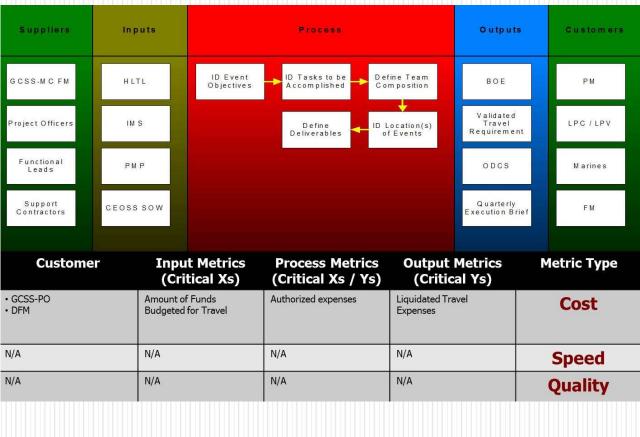
List any person or organization that provides an input into the process

- List Internal and External suppliers
  - Co-workers, same or different departments / organizations, vendors
  - Try the "People Who..." method again

S	I	Р	Ο	0	С
<ul> <li>Customers</li> <li>Utility Companies</li> <li>Raw material vendors</li> <li>Database Administrators</li> <li>Accounting</li> <li>Shipping companies</li> <li>Property managers</li> <li>Temp agencies</li> <li>Every Input has a at least one supplier!</li> </ul>	Customer Order Customer Invoice Requirements Invoicing System Shipment Verification	Receive Order Enter Order Validate Shipment Create Invoice Send Invoice Revise Invoice Receive Payment	<ul> <li>Only do this for the top 2-3 Outcomes</li> <li>What products</li> <li>deliver the desired outcomes to the critical Clients?</li> <li>What products do others make?</li> <li>What products could we make?</li> </ul>	Only do this for the most important 2-3 customers! Affinitize and multi- vote first! • To look cool • To make a statement • As an investment • To re-sell	<ul> <li>Accounts receivable</li> <li>Client companies</li> <li>Individual clients</li> <li>Stockholders</li> <li>Our employees</li> <li>The shipping department</li> </ul>



#### SIPOOC Example



**Tip #1:** Practice thinking Input-

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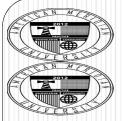
Process-Output (IPO)

Tip #2: Remember Y = f(x)

**Tip #3:** Remember, contrary to what your business leaders will tell you, process metrics are FAR more useful than financial metrics. Focus on Quality (eg. number of defects / item produced) and time (eg. number of items produced / day). Optimize the process, and you WILL find money!

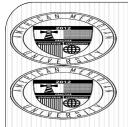
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#### **Final Comments**

- This is a team-building tool. The purpose is alignment of context and priorities. Do NOT sweat the details!
- Remember the phases of team building (Forming, Storming, Norming, Performing, Adjourning). This tool is designed for the Forming stage; very simple, very safe, very collaborative. There are no right or wrong answers. It's about the discussion and building a process-centric understanding of your organization.
- Remember that thinking and communicating in a straight line is NOT a natural thing for many people. You are beginning to break down silos and ownership. This is a slow, gentle process of preparing the right people and the right relationships to think rightly and work together to sole problems. Again, it's not about the tool, it's about the outcome it produces!

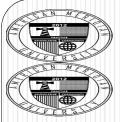


#### Summary

In this module you have learned about:

- Understand the components of a SIPOOC Diagram
- Develop a SIPOOC
- Understand the relationship between SIPOOC and Key Metrics

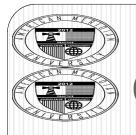




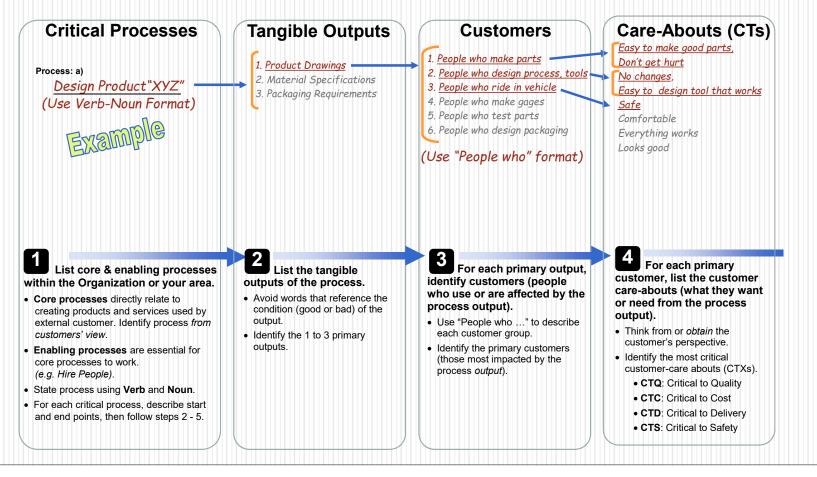
### **Reference Slides**

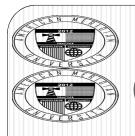


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# **Connecting VOC to the Value Stream**





# **Converting VOC to Metrics**

Customers	Care-Abouts (CTs)	Available Data
. People who make parts	Easy to make good parts,	Scrap
2. People who design process, tools	Don't get hurt	LEfficiency at plants
. <u>People who design process, tools</u> . People who ride in vehicle	<u>rechanges</u> ,	Injury at plants
. <u>People who make gages</u>	Easy to design tool that works	Number of design changes
5. People who test parts	<u>Safe</u>	
5. People who design packaging	Comfortable	
5. Feople who design packaging	Everything works	J.D.Power (safety incidents)
Jse "People who" format)	Looks good	
ho use or are affected by the rocess output).	For each primary customer, list the customer care-abouts (what they want or need from the process output).	<b>5</b> Determine what data is available to indicate how well the process currently meets each critical customer careabout.
dentify customers (people /ho use or are affected by the rocess output).	customer, list the customer care-abouts (what they want or need from the process output). • Think from or <i>obtain</i> the	available to indicate how well the process currently meets each critical customer care-
tentify customers (people who use or are affected by the rocess output). Use "People who" to describe each customer group.	customer, list the customer care-abouts (what they want or need from the process output).	<ul> <li>available to indicate how well the process currently meets each critical customer care- about.</li> <li>Identify the Process Owner.</li> <li>Collect data and identify gaps</li> </ul>
dentify customers (people who use or are affected by the process output). Use "People who" to describe each customer group.	customer, list the customer care-abouts (what they want or need from the process output). • Think from or <i>obtain</i> the	<ul> <li>available to indicate how well the process currently meets each critical customer care- about.</li> <li>Identify the Process Owner.</li> <li>Collect data and identify gaps between current process performance and what customers</li> </ul>
<ul> <li>dentify customers (people who use or are affected by the process output).</li> <li>Use "People who" to describe each customer group.</li> <li>Identify the primary customers (those most impacted by the</li> </ul>	<ul> <li>customer, list the customer care-abouts (what they want or need from the process output).</li> <li>Think from or <i>obtain</i> the customer's perspective.</li> <li>Identify the most critical</li> </ul>	<ul> <li>available to indicate how well the process currently meets each critical customer care- about.</li> <li>Identify the Process Owner.</li> <li>Collect data and identify gaps between current process performance and what customers want or need.</li> </ul>
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