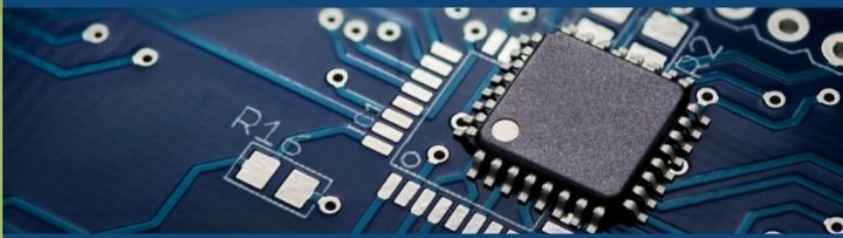


Forging Futures Idaho

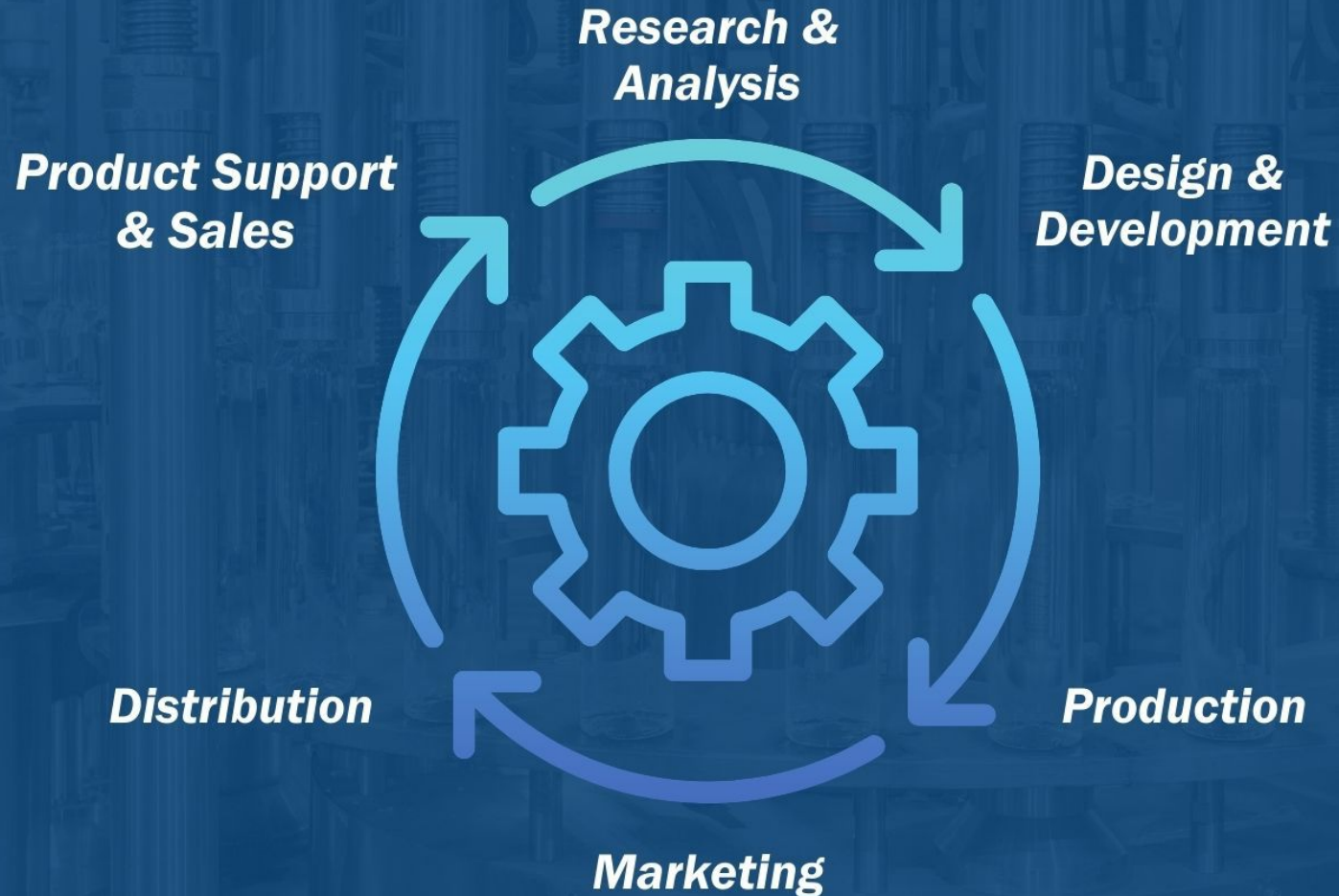
The Manufacturing Process



***FORGING
FUTURES***



The Manufacturing Cycle



Research and Analysis

The process of assessing a new product or service using research.

Example: Using focus groups or surveys to test reactions to a concept, product, or service prior to making it available to the general public.

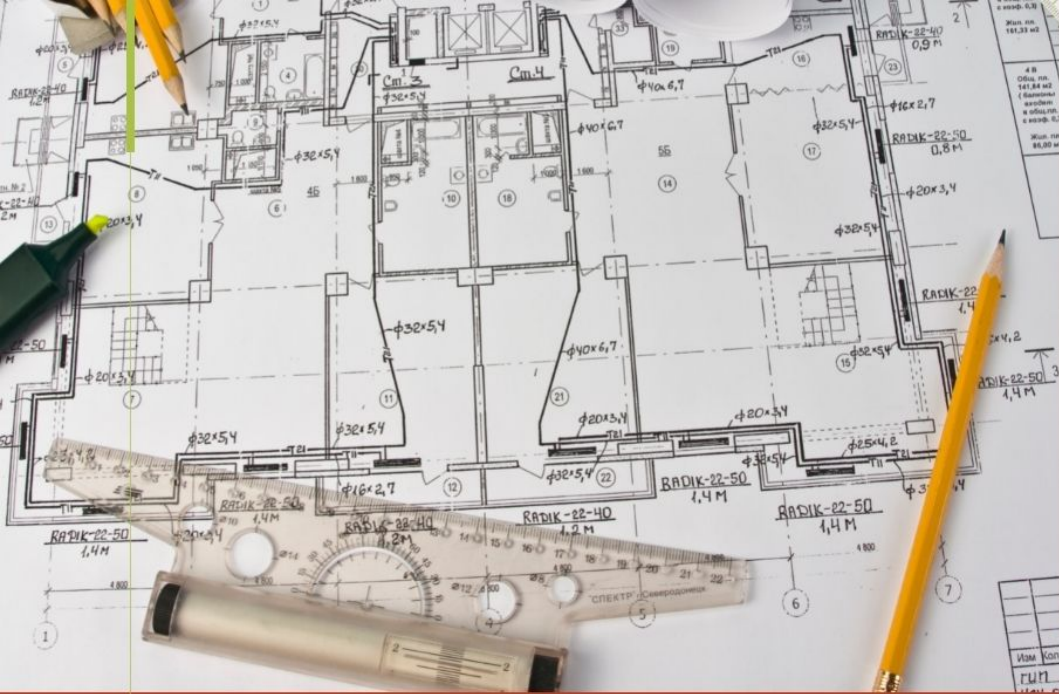


Component

Innovation

Being creative with an idea,
service, or thing.





Procedure

Design & Development

Taking a concept through the process of making a drawing, model, or plant that serves as the foundation for the actual product--and making sure the product needs wants and needs.



Component

Prototype

An original model or product on which something is patterned and used to develop a product.



Component

Manufacturing Costs

The cost or expense of labor, materials, and other components of the manufacturing process to create the final product.



Raw Material

A material or substance used to make something.

Examples:

Wood Manufacturing

- *Lumber*

Chemical Manufacturing

- *Water, Natural Gas, Minerals*

Primary Metal Manufacturing

- *Metallic Ore*

Textile Manufacturing

- *Fibers*





Procedure

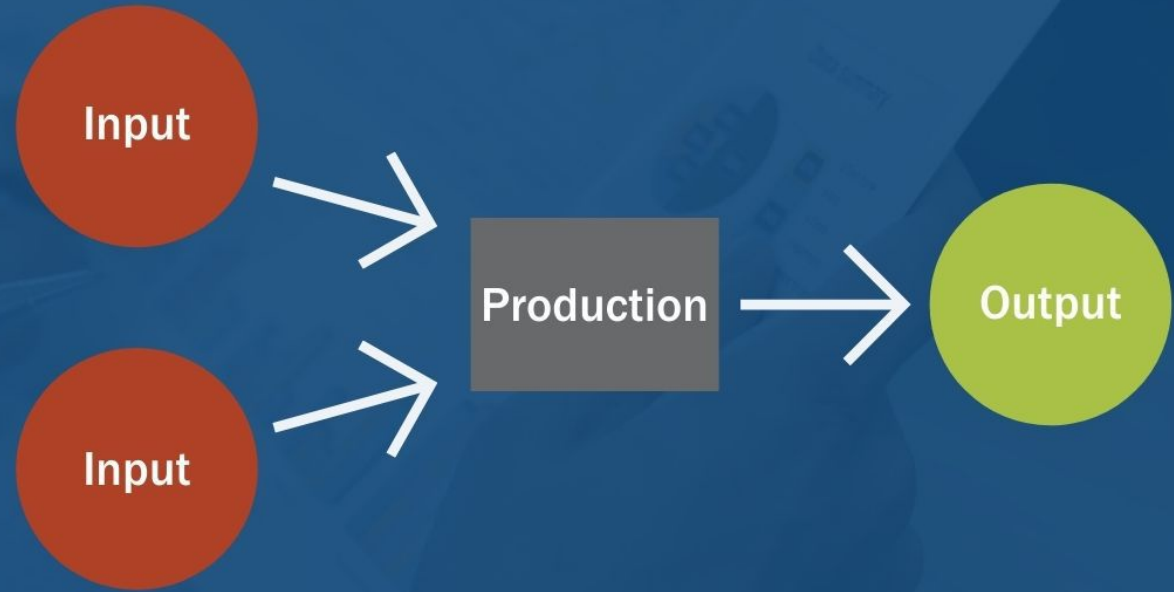
Production

Making the actual product; usually includes machines, robotics, assembly lines, and more.

Component

Outputs

Amount of work, products, services, or energy produced in a given period. Outputs can be done by a group of people, individuals, or a machine.



Component

Hang Tag

Item attached to a product that shares information about the product & manufacturer (not a price tag).



Procedure

Marketing

Creating and communicating interest towards your product from consumers.





Component

Supplier

A company or entity that provides another company with service or goods. Sometimes called a vendor.

Procedure

Distribution

Taking an item or product after it has been manufactured and getting it to the consumers.





Component

Warehouse

**A place where products
can be stored before
distribution or sale.**





Procedure

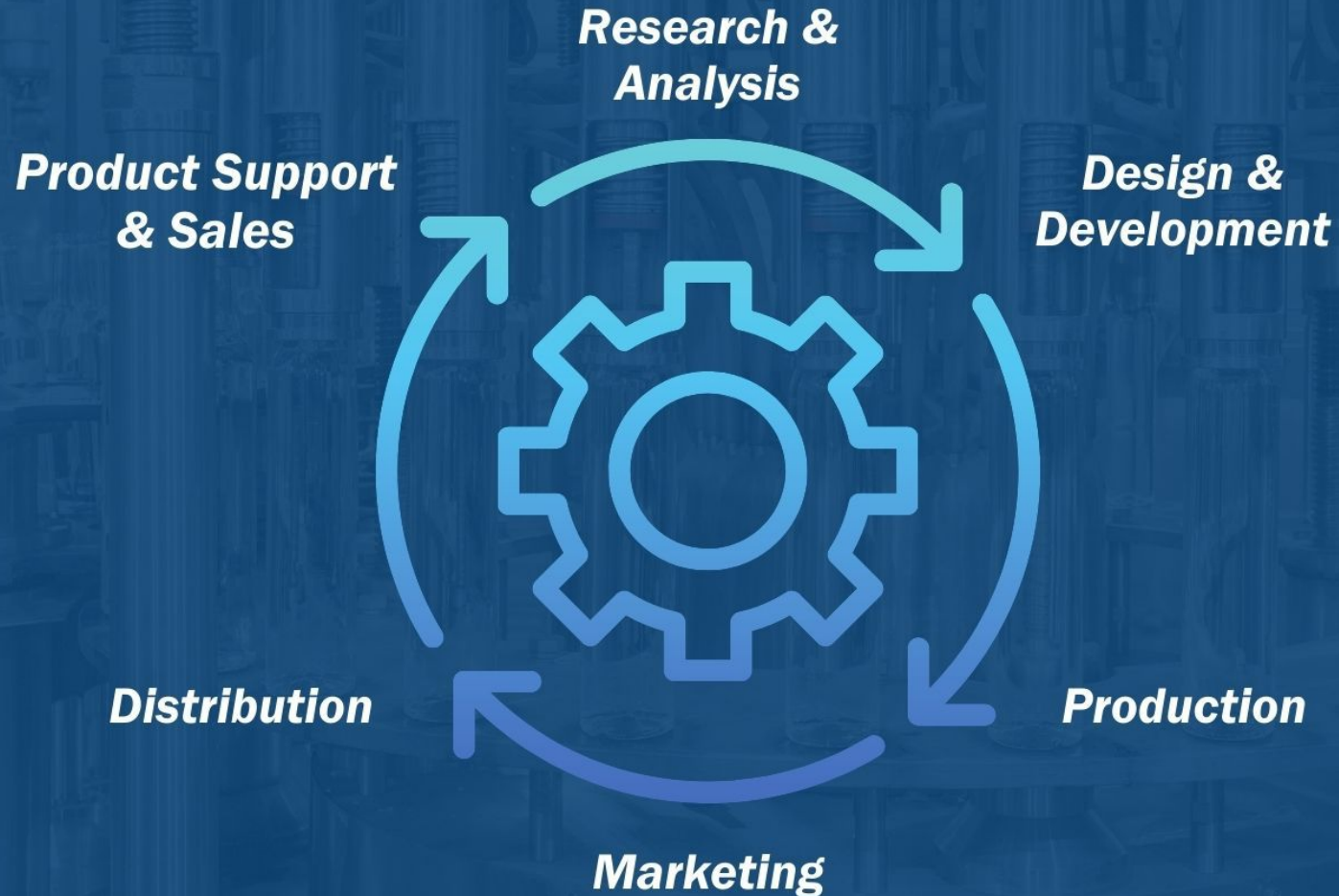
Product Support and Sales

Ensuring that products are meeting intended use and serving the target audience.

Meeting goals and satisfaction lead to more sales and growth.



The Manufacturing Cycle



Sources

**An Introduction to Manufacturing: Teacher Guide [PDF].
(2012). Bemidji: Bemidji State University.**

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