# Carnegie Mellon University Swartz Center for Entrepreneurship

# **Strength in Numbers**

## Welcome to CMU!

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#### Why Convene this Cohort?

 Build capacity in women and minority owned businesses in communities close to CMU

• First pilots in Homewood and Wilkinsburg

#### Where and When will Cohort Meet?

• Fourth Session: Wednesday, **December** 1<sup>st</sup>

 Educational sessions at Swartz Center for Entrepreneurship at CMU Tepper Quad

#### Program Strategy

Identify the road to profitable growth

Understand blocks on that road

Work together to clear them away

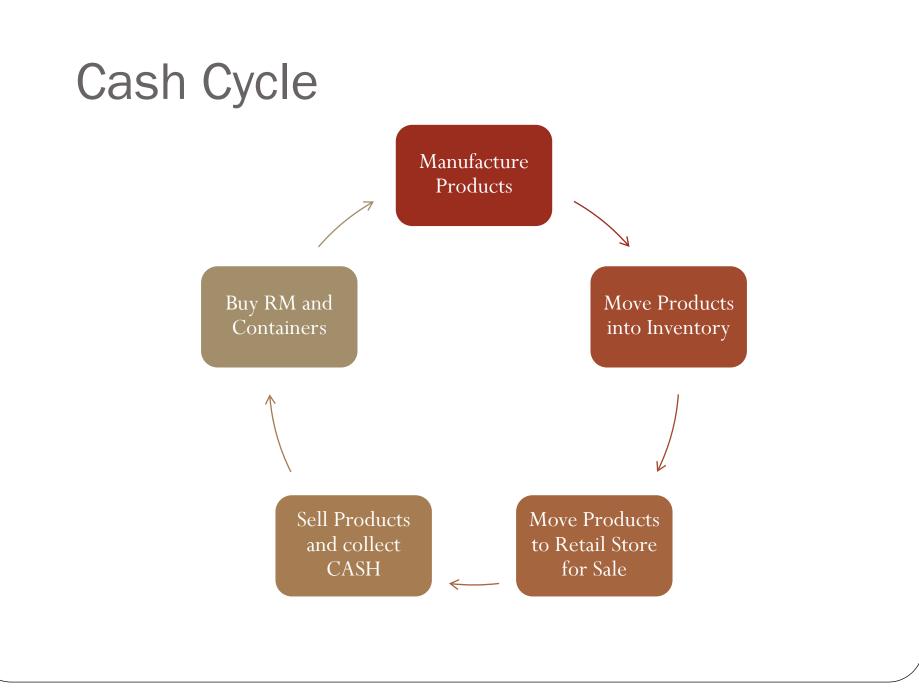
#### The Cash Cycle

The **cash cycle** is the time period between when a business pays cash for materials, inventory, and payroll, and when it **receives cash** from its customers.

The Cash Cycle The Cash Cycle is used to determine the **amount** of cash needed to fund ongoing operations, and is a key factor in estimating financing requirements

Acme Manufacturing Co is a manufacturer of organic beauty products

Needs **cash** to buy materials, pay workers, and **manufacture products before** they can **sell** the products and **collect cash** 



Acme manufactures the products then sells them in their retail store and on-line before they collect cash

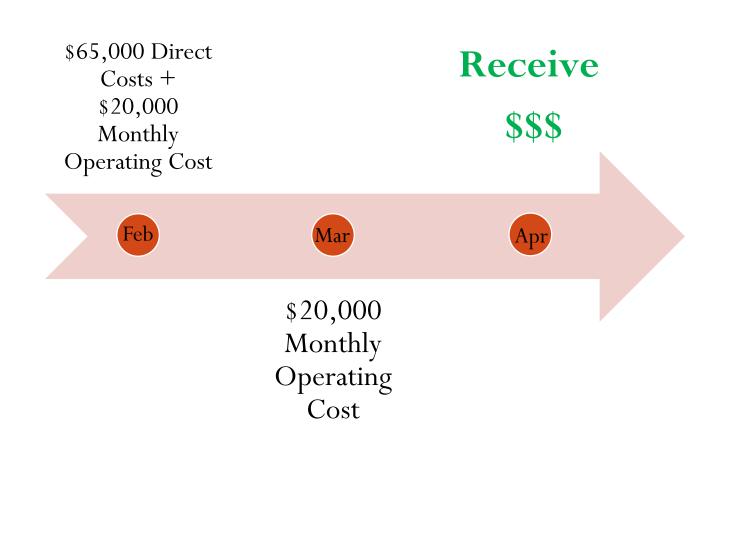
#### **Acme** Direct Manufacturing Costs:

Raw Materials Containers \$ 25,000
\$ 40,000
\$ 65,000

# **Each month**, Acme Manufacturing must also pay **\$20,000** for indirect costs:

- o Rent
- o Payroll
- o Utilities
- o Office Expenses

#### Acme Mfg Cash Need



#### Financing Needed to Fund Cash Cycle: \$105,000 Less \$25,000 Cash on Hand

#### \$80,000

# Line of Credit A Line of Credit (LOC) is used to cover a business's Cash Cycle

#### LOC is a credit facility provided by a bank or a CDFI (Community Development Financial Institution)

# LOC Amount The Amount of a LOC is tied to:

- Accounts Receivable (A/R)- 75% to 80% collateral
  - **\$80,000 in A/R LOC** of approx. **\$60,000**
- Inventory <50% collateral \$100,000 in inventory – LOC up to \$50,000

LOC is Different than a Term Loan LOC Features and Benefits

- Interest Only
- Borrow, Repay, Re-borrow
- Principle clearance may not be required
- Less expensive (lower rate) than Term Loans

#### Required to get a LOC: Pro forma!

Requirements to apply **for financing** through Banks, Bridgeway Capital, URA:

All Require 3 Year Projections a.k.a. Pro forma Income Statements for 3 years into the future

# The Income Statement

#### Revenues



#### **Profit or Loss**

#### Sample Income Statement

#### Income statement example

#### TEDDY FAB INC. STATEMENT OF INCOME

Revenues	\$ 1,000,000
Cost of goods sold	200,000
Gross profit	800,000

Operating expenses	
Selling, general, and administrative expense	357,700
Interest expense	20,000
Depreciation and amortization expense	5,200
Operating income	417,100
Interest income	20,000
Net earnings before taxes	437,100
Income tax expense	240,000
Net income	\$ 197,100

#### **Accurate Financial Statements**

Building accurate financial statements is essential to understand your company's financial performance and being able to convey that performance to those that can provide capital

#### How Financial Statements are Created

#### The Chart of Accounts (COA)

- The **COA** is **the foundation** of your **accounting system**
- The COA determines **how** your **transactions** are categorized and **reported in** your **financial statements**
- Companies **use a COA to organize** their **finances** and **give** interested parties, such as **banks**, a clearer **insight into their financial health**

#### What is a Pro forma?

- **Pro forma** financial statements are **based on past** performance
- Provide a **glimpse into the future** financial performance
- Tell a story to banks of your "what-if "scenario
- Pro forma financial statements **use assumptions** about things that might occur in the future

#### How to begin

Use year-to-date income statement results by MONTH along with what is expected for the remainder of the year to create a full-year pro forma statement for 2021

### Start the Process List events that will impact your income statement in the future such as:

- New hires, retirements, and employee raises
- New customers
- New marketing campaigns
- New property, machinery, website, etc.

Mirror your Income Statement Examine the Monthly Income Statement line by line; consider if each line will change in the next year based on changes in:

- Revenue
- Number of employees
- Amount of real estate space used
- Increases in costs or pricing

#### Explain the changes

- Keep the reader's perspective in mind **this is for a BANK**
- Make sure to thoroughly explain the basis for and changes you have made to your monthly income statement
- Your Pro forma tells a story and like any good narrative – you need to provide sufficient background on the characters, events, and plot points!

#### Apply for a LOC!

When your **pro forma Income Statement** (by month for 3 years) shows profitable progress for your business – you will be ready to apply for a Line of Credit to fund your Cash Cycle and **GROW**!

#### **Preparation for December Meeting**

- Connect with your mentors weekly
- Build a pro forma income statement for 2022 in Excel; this will be the first year of 3-year monthly pro forma income statements that are required to obtain a line of credit
- Create a monthly pro forma income statement for 2023 and 2024. Review the pro forma with your mentor. Note all assumptions used and ask your mentor if they seem reasonable.

#### Contacts

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