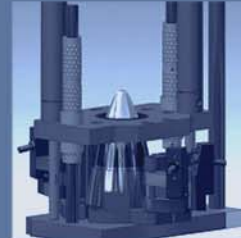




Inspiring Innovation Through People, Process and Technology

IMPACT



# Available Resources to Business for State-of-the-Art Manufacturing

## Army Small Business Conference November 8, 2007

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**John S. VanKirk**  
*President and Executive Director*  
[john.vankirk@ncdmm.org](mailto:john.vankirk@ncdmm.org)

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1600 Technology Way • Latrobe, PA 15650  
Phone: (724) 539-8811 • Fax: (724) 539-5094

[www.ncdmm.org](http://www.ncdmm.org)



# About the NCDMM

- A 501C(3) organization
- ***Collaborate to deliver optimized manufacturing solutions*** that enhance the quality, affordability, maintainability, and rapid deployment of ***defense systems***.
- Fifth year of operation



***NCDMM is a resource to support your organization in today's competitive manufacturing environment.***



# Issues Facing Small Business

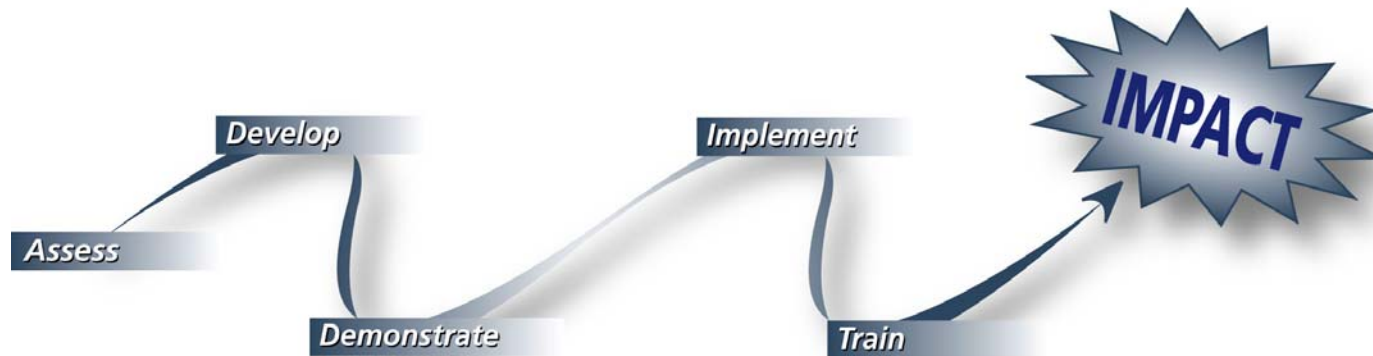
1. Finding qualified skilled employees
2. Globalization
3. Increased usage of advanced materials
4. Certified Quality Management System
5. Threat/Opportunity of new technology

**INNOVATIVE technology will mitigate or eliminate the impact of these issues. We must invest in our manufacturing future by IMPLEMENTING new technology!**



# NCDMM Small Business Support

- Review and assess manufacturing capability
- Provide manufacturing expertise – develop and implement
- Assist in implementing advanced technology
- Provide technology awareness and training programs
- Assist in identifying business opportunities



# Examples/Savings

## Chinook - Bulkhead Optimization

*Objective:*

*Reduce weight and improve reliability of floor frame bulkheads*

IMPACT/COST AVOIDANCE  
**\$3.5M**



## Black Hawk Ti Rotor Component

*Objective:*

*Improve manufacturability from 60 to 95 pieces/week*

IMPACT/COST AVOIDANCE  
**\$2.2M**



## Picatinny Arsenal XM982 Excalibur

*Objective:*

*Eliminate a production bottleneck from 40 hours/part to 1.5 hours/part*

IMPACT/COST AVOIDANCE  
**\$75M**



## Edge-of-Part Composite

*Objective:*

*Reduce cost of trimming composite wing skins*

IMPACT/COST AVOIDANCE  
**\$225M**

- To-date:
- 1) Over 75 projects have been completed
  - 2) Partnered with 62 leading technology enablers
  - 3) Engaged with over 80 shops

# NCDMM Results

## NCDMM has delivered:

- \$478M in cost saving/avoidance in DoD efforts
- Assisted in \$75M of defense work to small businesses





# Engaging with NCDMM

## How to engage with NCDMM

- Commercial and Non-Federal Agencies
  - Purchase order / Contract
- Annual Project Call
- Training program participation
- Make NCDMM aware of your capabilities

**For our military to be the best they need innovative tools and weapons that require advanced manufacturing solutions.**