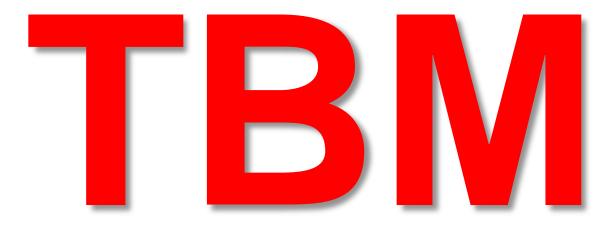
Take Back Manufacturing





Take Back Manufacturing

- It is about manufacturing in Ontario.
- It isn't about the organizations behind it.
- It is about the jobs and prosperity we have lost.
- It isn't about protectionism or handouts
- It is about balanced import and exports..
- It isn't about us versus them.
- It is about our future.
- It isn't about individual or group agendas.
- It is about, AND MUST STAY ABOUT, the common denominator that we all share...



Society of Manufacturing Engineers

Take Back Manufacturing It's about:

Having ONE voice and ONE agenda...

What we all want :

What we all need:



Take Back Manufacturing It's about:

Having ONE voice and ONE agenda...

What we all want :

What we all need:

STRONG Manufacturing... IN Ontario... AGAIN!

Take Back Manufacturing

TBM...What is the purpose??

The purpose is plan the roadmap to TAKE BACK MANUFACTURING in Ontario.

The goal is to get government, educators and industry leadership......

.....to start working closer together.

So we can plan the recovery of the declining manufacturing sectors in Ontario.



Take Back Manufacturing Globalization?...

It is now very clear that the economy both here and in the USA and through-out the world is floundering,

We are seeing a general failure and dissatisfaction with the globalization model for financial and economic stability.

Our economic policy makers continue to struggle

They are reaching the realization that something much more significant and fundamental must be done to reposition all western economies...

Take Back Manufacturing

So...the need for TBM should resonate now

.....more than ever!!



Society of Manufacturing Engineers

Take Back Manufacturing So what's next?

Everyone is now beginning to see the issues and the situation, but little is being actively done to fix it,

The TBM Initiative has a fresh and much broader representation across many parts of industry,

We are now starting to communicate and gain involvement.

So..its now the turn of government and others that set policy to listen.....



Take Back Manufacturing

Help us Take Back Manufacturing!!!.



WELCOME

Take Back Manufacturing

It's about us....



Society of Manufacturing Engineers

Take Back Manufacturing

Introducing our presenters today..

Marie LairdSME Chair Toronto

Nigel Southway ... SME Operations leader



Take Back Manufacturing

Why would we want to Take Back Manufacturing?

The deep concerns expressed from everyone we have talked too is that:

We are all rapidly losing our prosperity via the ongoing decline in this important part of our economy,

We have doubts about the ability of Ontario and Canada to compete.

We are all concerned about jobs and our ability to pay our way as Ontarians.

Also we are all worried about the next generation's future.

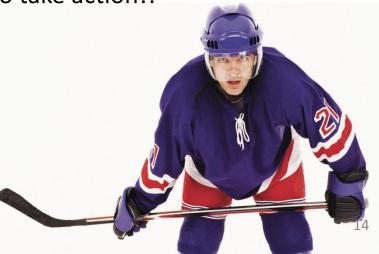
Much more must be done to improve the Canadian economic and business environment to better position us for success.



The TBM FORUM

- A range of Organizations
- Common views and concerns
- Collective strength and unity
- Develop and undertake a Joint recovery plan
- Convince our Governments and Leaders to take action!!
- Define best future for our:
 - Declining industries
 - Economy
 - Our children
 - Before its too late
 - Its not game over!!!

25 technical Associations
3 Trade associations
5 educational policy makers
Media experts
Local government reps
Industry experts



Take Back Manufacturing

It may be a government policy issue We do need support and help But

It is "our job" as industrialists to follow a successful roadmap to improve and be competitive to become entitled to TBM



Take Back Manufacturing



It's only a game!!!





Society of Manufacturing Englideers

It's only a game!!!

MANUFACTURING

Sher-Wood follows rivals to China, closes Quebec hockey stick plant



We have a generation of parents who have been brought up to think that only the Japanese make good cars!.....

Now we will have their kids thinking Canada cannot make hockey sticks!!







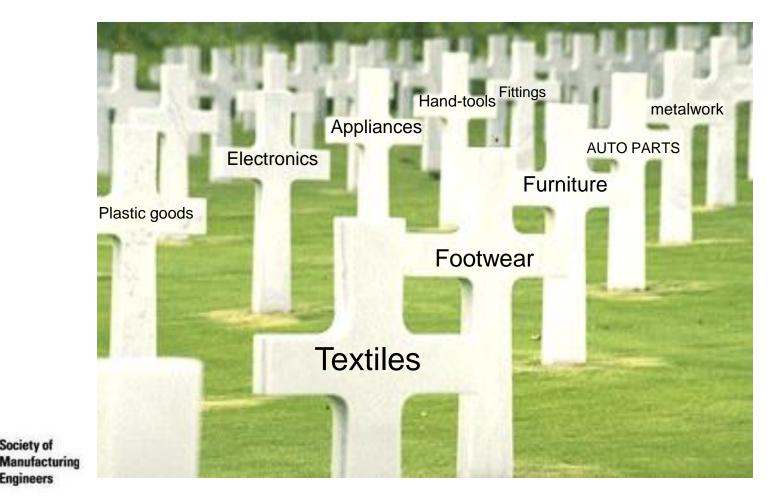
A Global Challenge

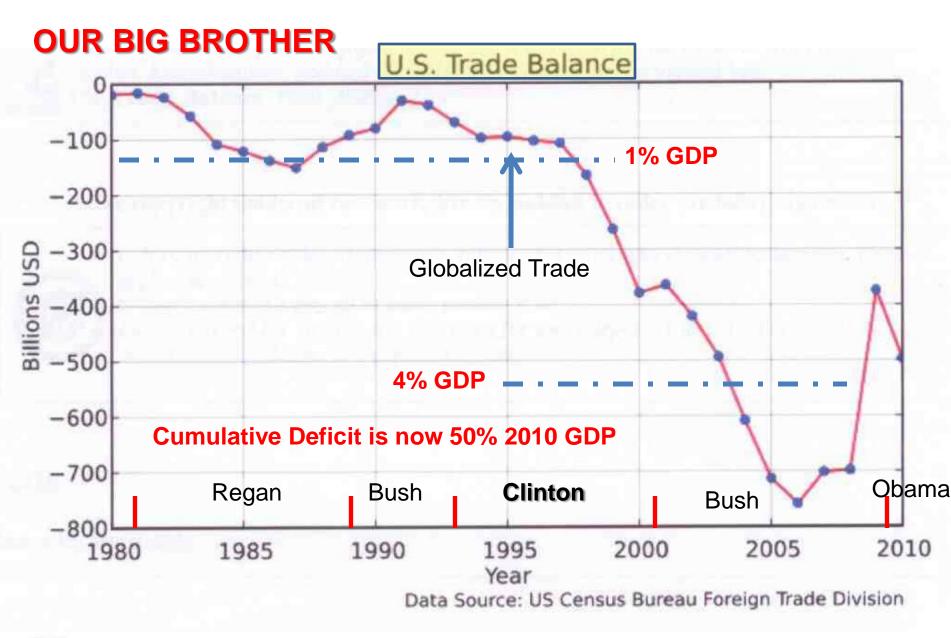


Society of Manufacturing Engineers

Stiff Offshore Competition

• Many businesses have faced stiff competition leveraging offshore supply of products or services that threaten survival



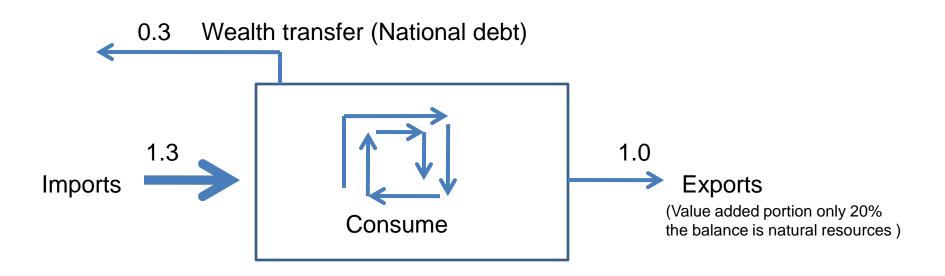




(US GDP 2010=14000B)

The Wealth Transfer Machine

We have developed a Wealth Transfer Machine from North America to emerging economies that is mainly one way.



Concept from "THE END OF THE FREE MARKET" Bremmer



The Big question NOW being asked...

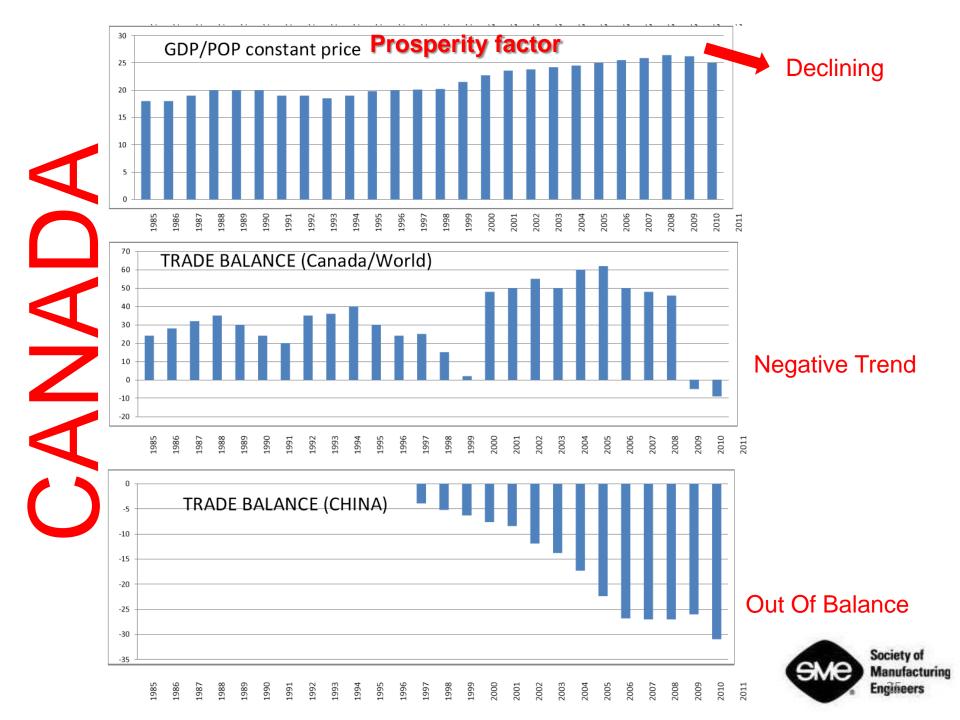
Did we manage the trade balance ?

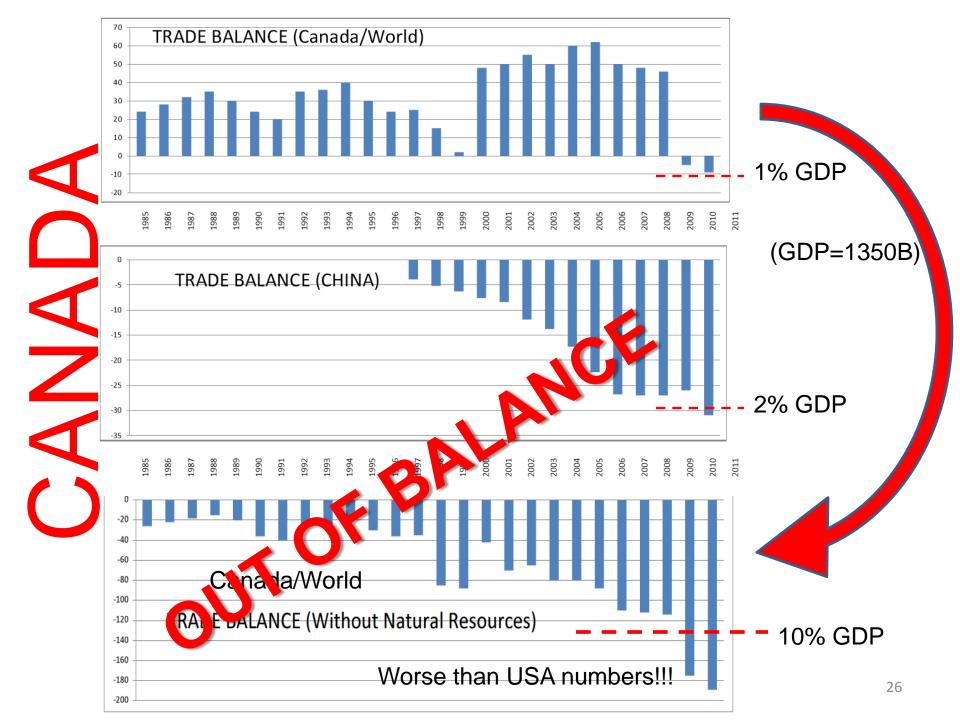
Should it have been trade at any cost?

or

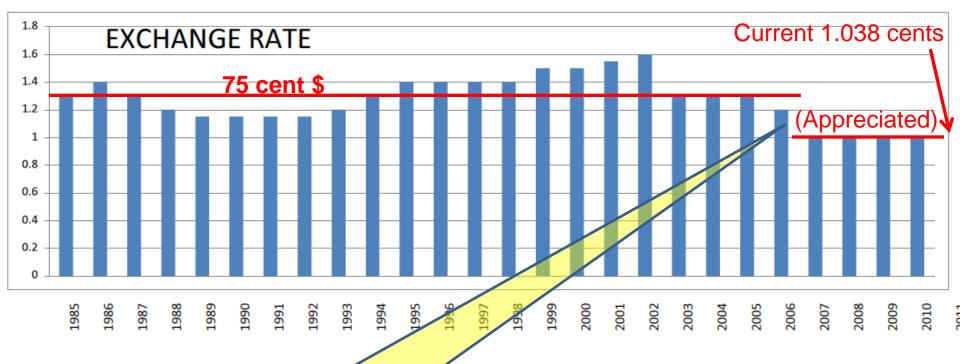
Trade that benefits all?







CANADA/US(Reserve) EXCHANGE



Created by a resource boom.. Appreciates Currency Reduces ability to Export Reduces balanced manufacturing Increases exposure to global instability We need to understand that we have been exposed to commodity speculation not true growth in \$ value And it will not pay our bills in the long term.



Society of Manufacturing Engineers

Current situation...... Ontario

Economy in the whole of North America is in "stall" mode.

Ontario falling behind in Productivity/Innovation and Prosperity.

Canada Over-dependent on a Resource based economy. (high \$)

Canada tradeNot-balanced (for value adding manufacturing)

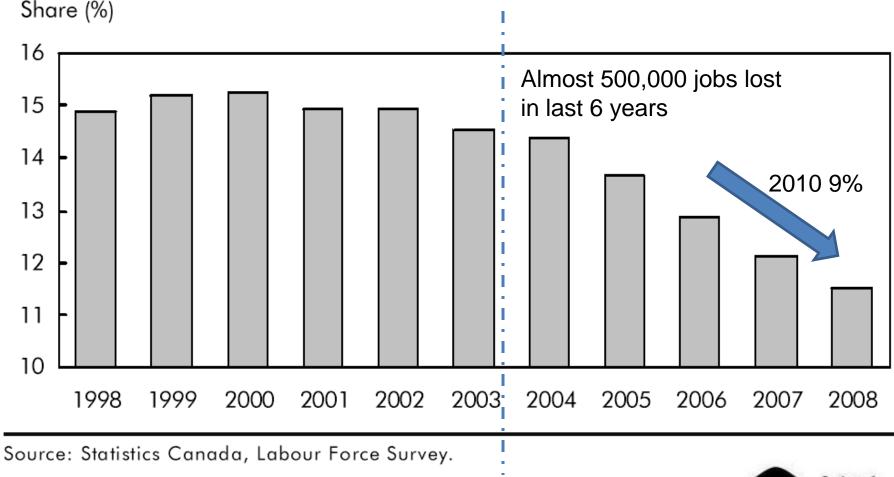
Manufacturing as a key sector for Ontario..... in serious decline

Manufacturing support/education infrastructurebadly unfocused

Overall bleak outlook for the next generation



CAW TCA CANADA www.caw.ca Manufacturing's share of employment has fallen sharply since the turn of the century



Society of Manufacturing Englineers

The social conscience for manufacturing

Most manufacturing based businesses are beyond dispirited....

Our Politicians/Government have little understanding of business and manufacturing.(We must EDUCATE them!!)

Manufacturing is deemed:

Dark, Dirty, Dangerous, Deafening and Difficult....

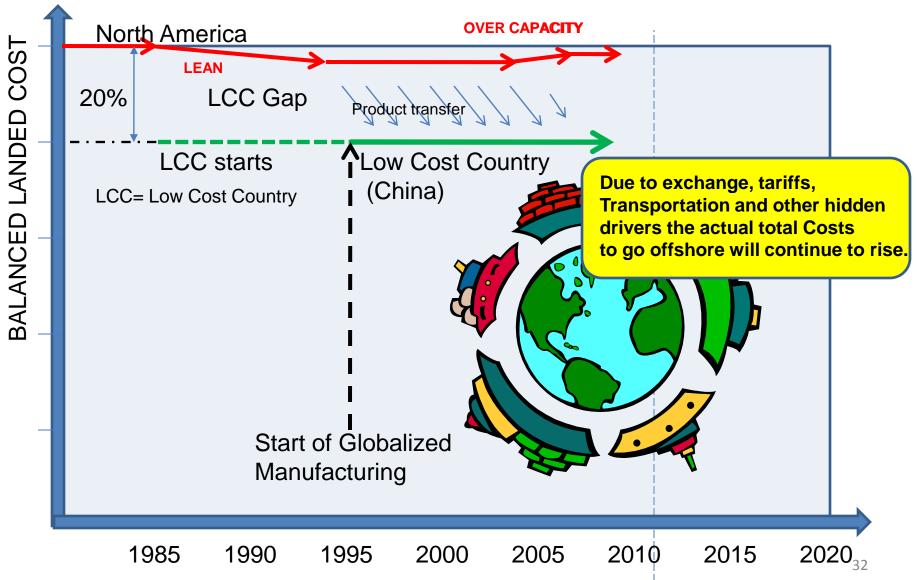
..... And Smelly!

A glimmer of hope !

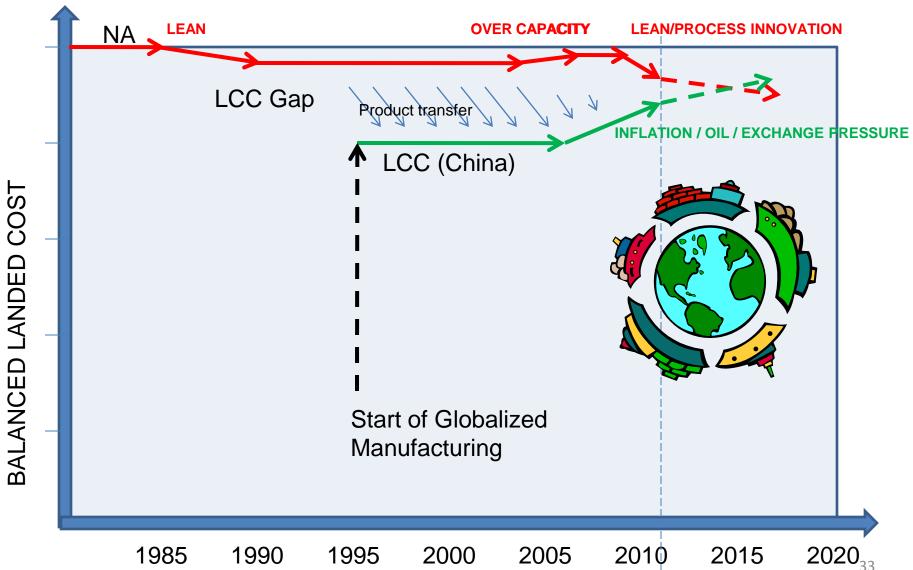




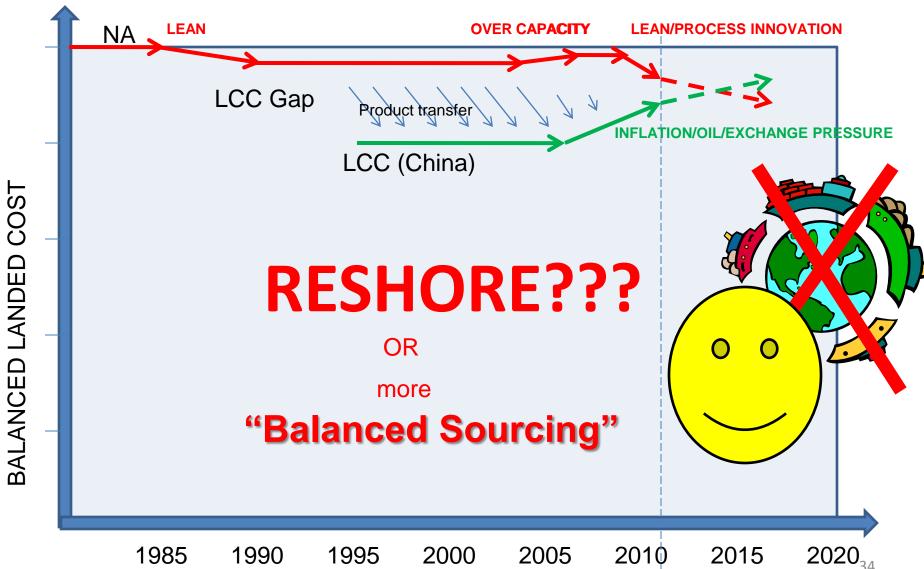
The Global Competitive gap



The Global Competitive gap



The Global Competitive gap



What is happening South of the border? . Re-shoring !!!

- 2 Million jobs lost in USA in last 3 years and got back just 10%... (MUCH Larger ratio here in Canada..need to get them back!!)
- A resurgence of manufacturing in USA

via

lower exchange rate

Rethinking of globalized supply

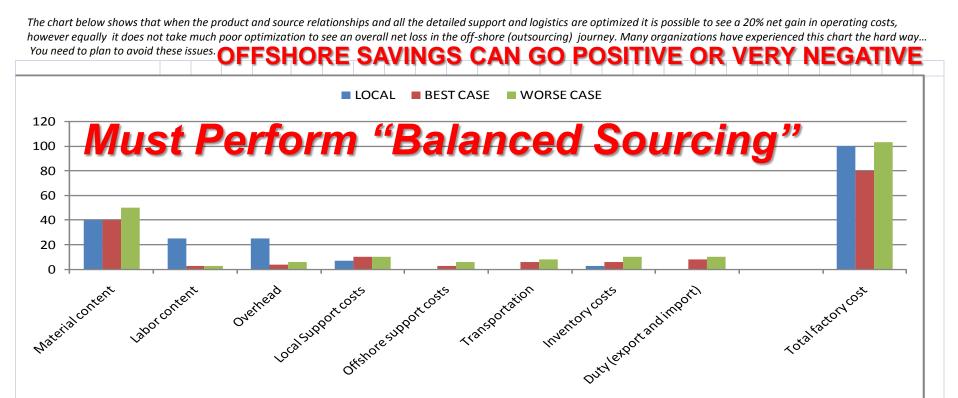
Re-shoring cost trade-off modeling and discussions.

- Canada needs to participate !!!
- Need to do at least more "Balanced Sourcing"



Society of Manufacturing Engineers

Q1. Do you understand the benefits versus all the direct and hidden costs and the types of sourcing and logistic options?



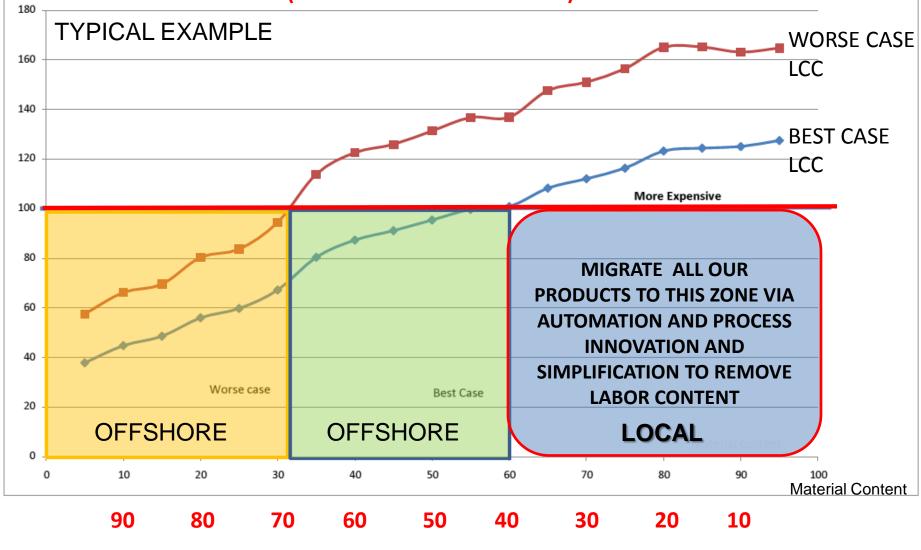
			BEST	WORST		
% of Total Cost	LOCA	AL	OFFSHO	RE OFFSHOP	RE	Issues
Material content	40		40	50		Foreign country materials may need harmonizing with your designs
Labor content	25		3	3		A clear advantage, but product skill and training may be an issue
Overhead	25		4	6		A lack of foreign management capability may effect other hidden costs
Local Support costs	7		10	10		Your internal support for offshore will be an adder to your business costs
Offshore support costs	0		3	6		Support at offshore site will be an adder to your business costs
Transportation	0		6	8		These added costs can also be effected by containerization skills and knowle
Inventory costs	3		6	10		longer line of supply and maybe associated forecasting will attract inventory
Duty (export and import	0		8	10		Brokerage, duty and insurance will add to the costs
Total factory cost	100		80	103		Baseline set on local supply Society of Manufactor

Engineers

OFFSHORE VERSUS LOCAL MANUFACTURING BY % LABOR CONTENT

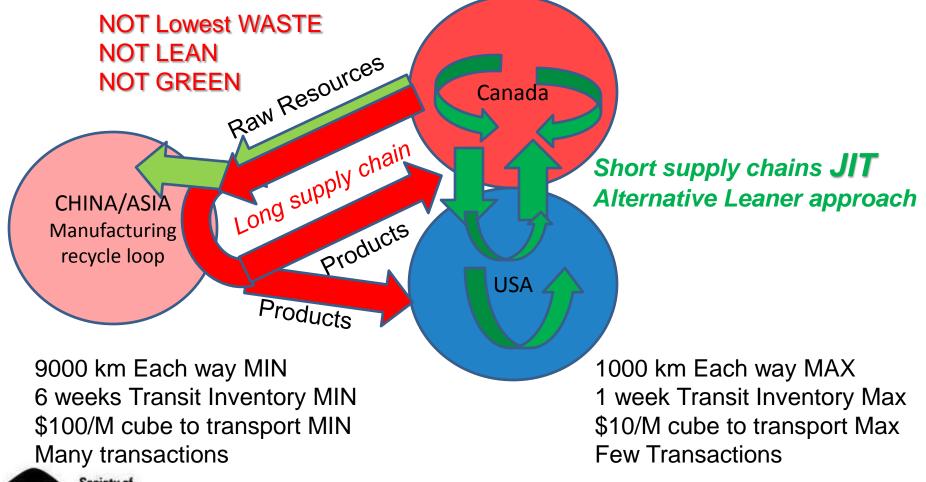
% landed cost to local

(SINGLE LEVEL COMPONENT)

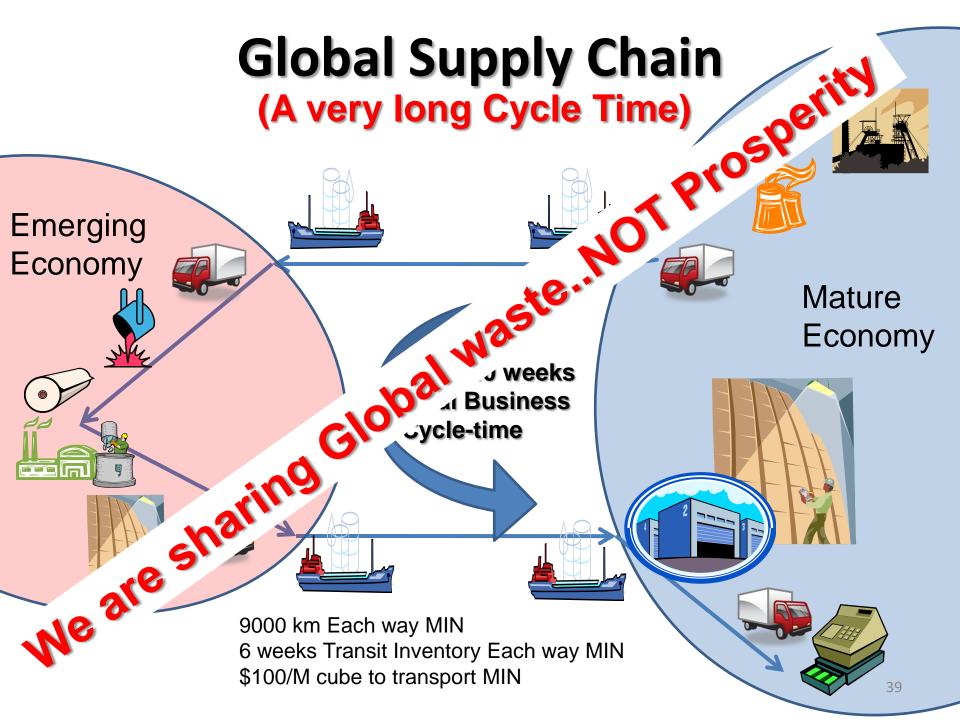


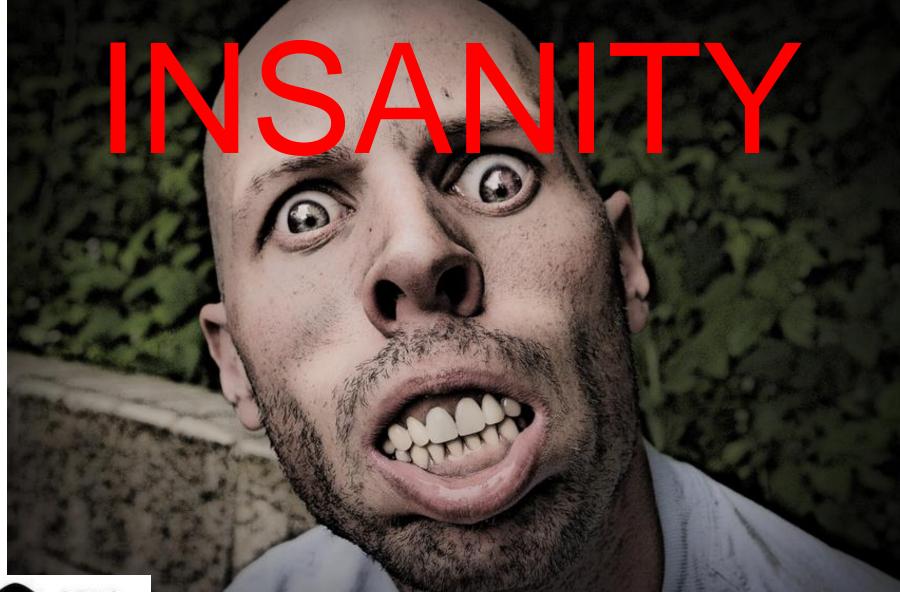
% LABOR CONTENT

Latest Raw Resource Exporting/Importing Model (NOT the lowest cost or LEAN or Green Global solution)











Society of Manufacturing Engineers Toronto Advancing Manufacturing in Ontario

Take Back Manufacturing The Now situation

(Measured over the last 10 years + USA and Canada)

Stock market instability Corporate cash (Excess) Very Low Interest rates Diminishing Technical education Increasing Cost of oil Increasing Commodity prices Mid to low Industrial investment Reduced Consumer confidence Government budget deficit Growing North American Trade deficit Increased resource based economy Unemployment up (Certainly in value adding sectors) Less Career opportunities for next generation Increased Cost of living Prosperity dropping







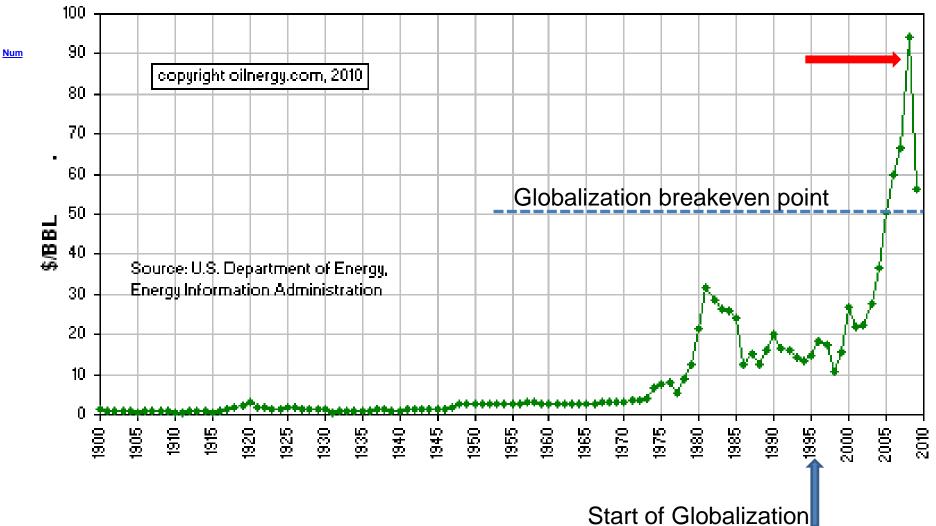
Mr. Jeff Rubin, Author, Former CIBC Chief Economist for more information visit aspo.tv/

We will not run out of Oil...

but we will run out of Oil we can afford to burn!!

S M ALLER

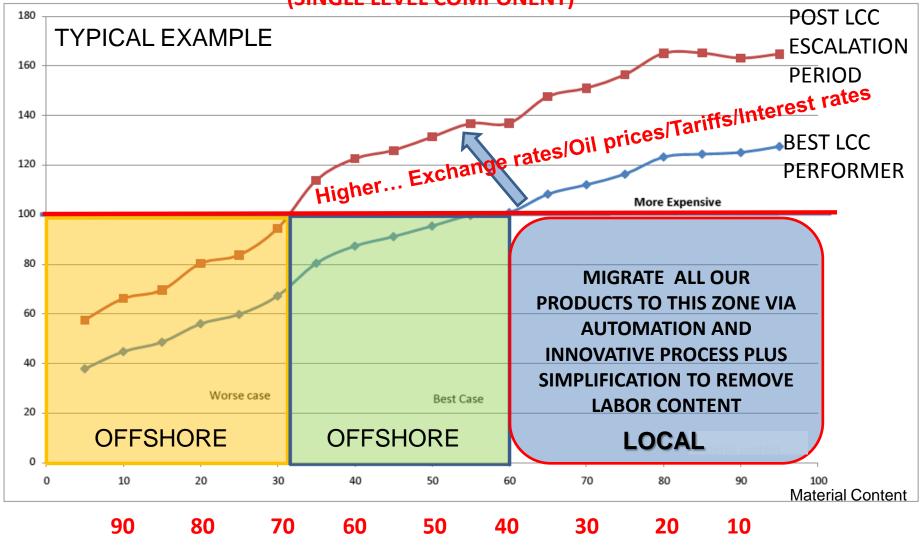
Crude Oil Prices in USDs



OFFSHORE VERSUS LOCAL MANUFACTURING BY % LABOR CONTENT



(SINGLE LEVEL COMPONENT)

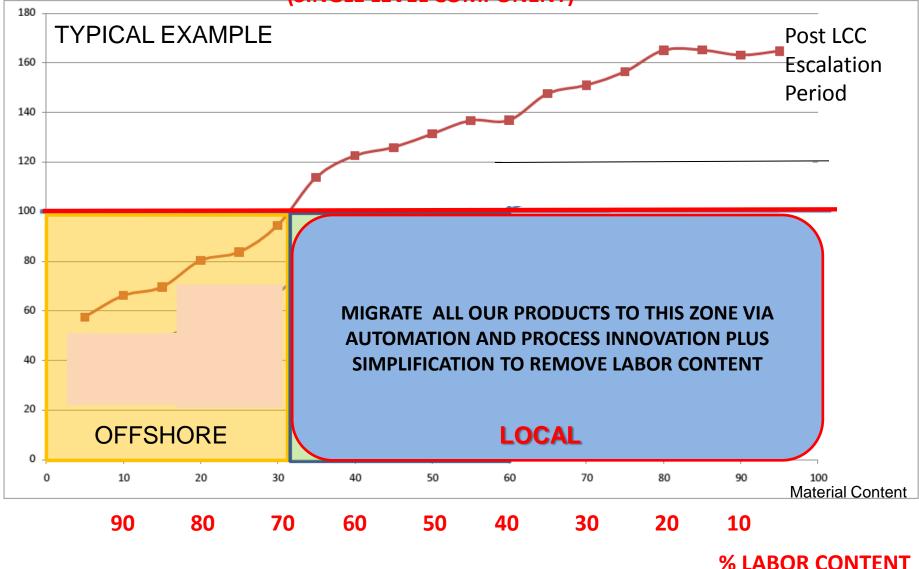


% LABOR CONTENT

OFFSHORE VERSUS LOCAL MANUFACTURING BY % LABOR CONTENT

% landed cost to local

(SINGLE LEVEL COMPONENT)



Society of Manufacturing Engineers Toronto Advancing Manufacturing in Ontario

Take Back Manufacturing The Now situation

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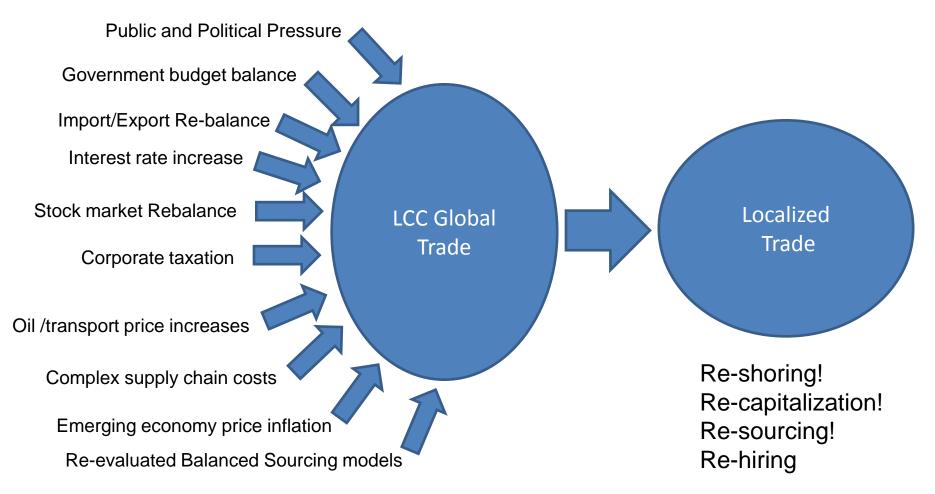
Not so good



THE FUTURE

(The Near future)

New Pressures on LCC Globalization (Resource & Product Transfers)



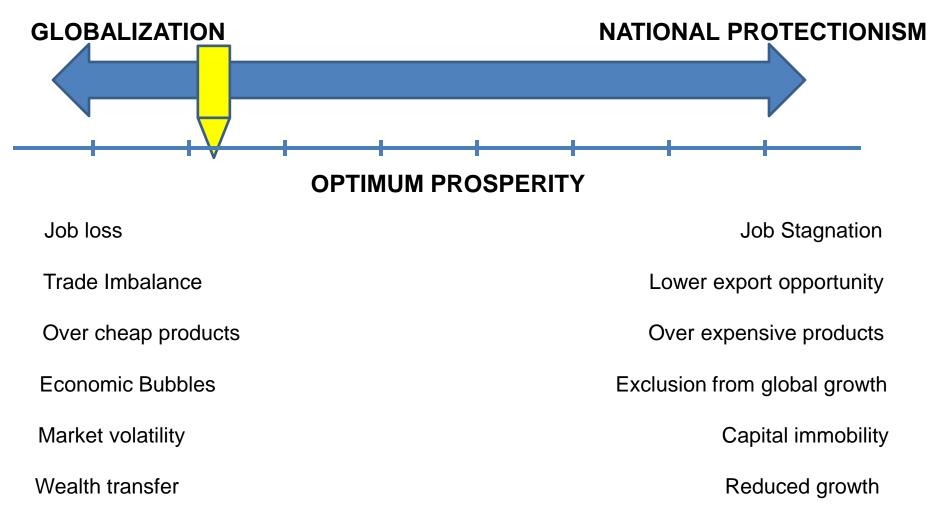
We will meet G20 deficit and debt targets well ahead of schedule.

Yet we also are implementing a Pro-jobs and growth agenda that is focused on promoting investment, hiring and retention of workers affected by the Global economic downturn.

> Stephen Harper 13th October 2011 Globe and Mail

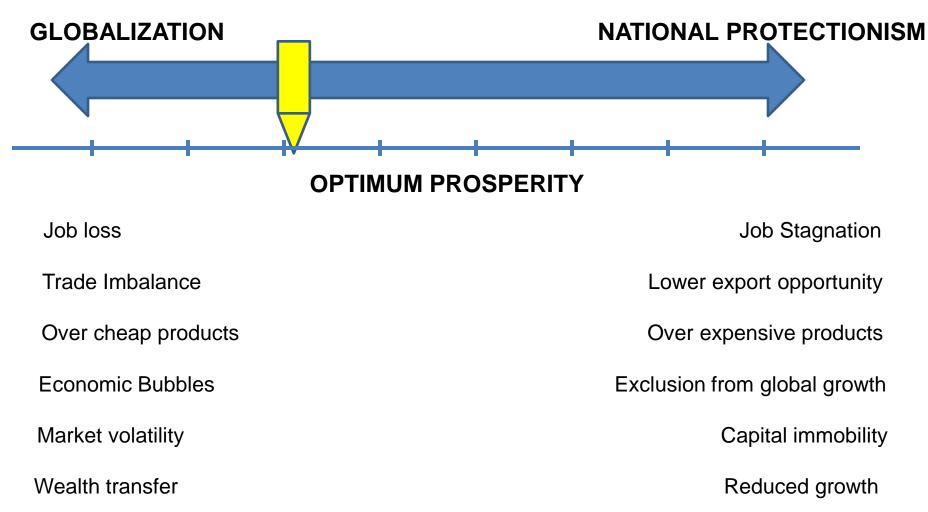


RESET THE ECONOMIC BALANCE



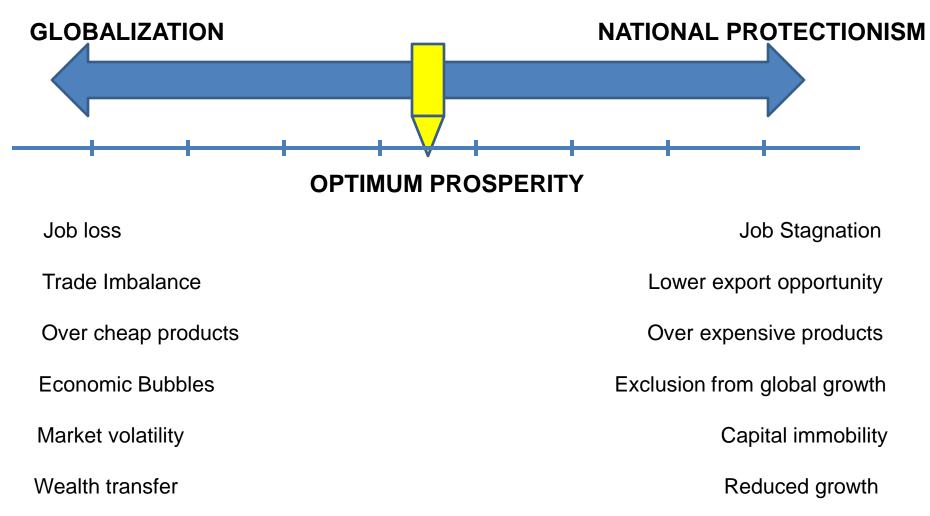


RESET THE ECONOMIC BALANCE



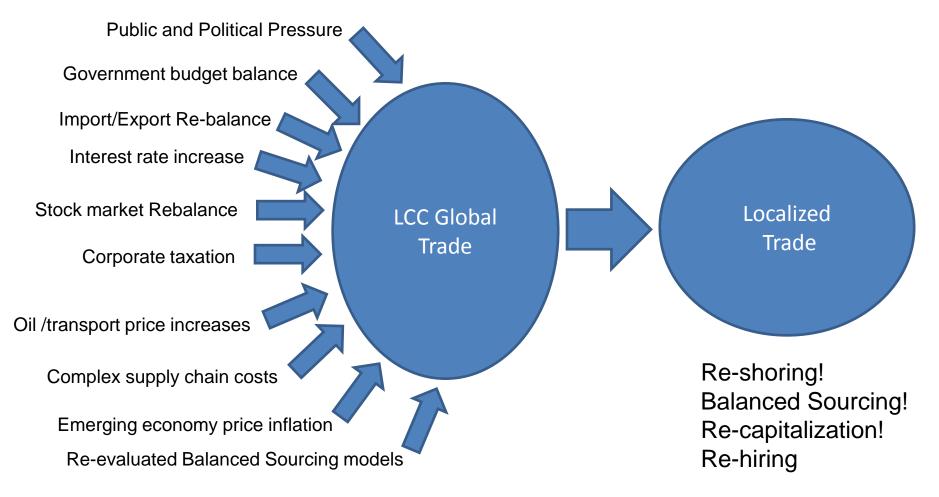


RESET THE ECONOMIC BALANCE





New Pressures on LCC Globalization (Resource & Product Transfers)





Looks like TBM !!!



Are we ready???....



WHY NOT?

- We already have the resources here
- We still have the know-how and skills.
- We have our consumers here.
- We have our investments here
- We have our futures here



WHY NOT?

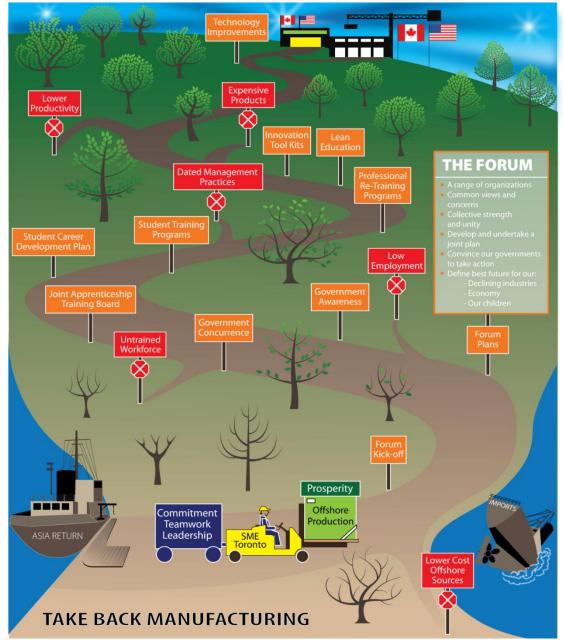
- We already have the resources here
- We still have the know-how and skills.
- We have our consumers here.
- We have our investments here
- We have our futures here
- Why should we import ALL the manufactured goods and export all our value added wealth and prosperity?



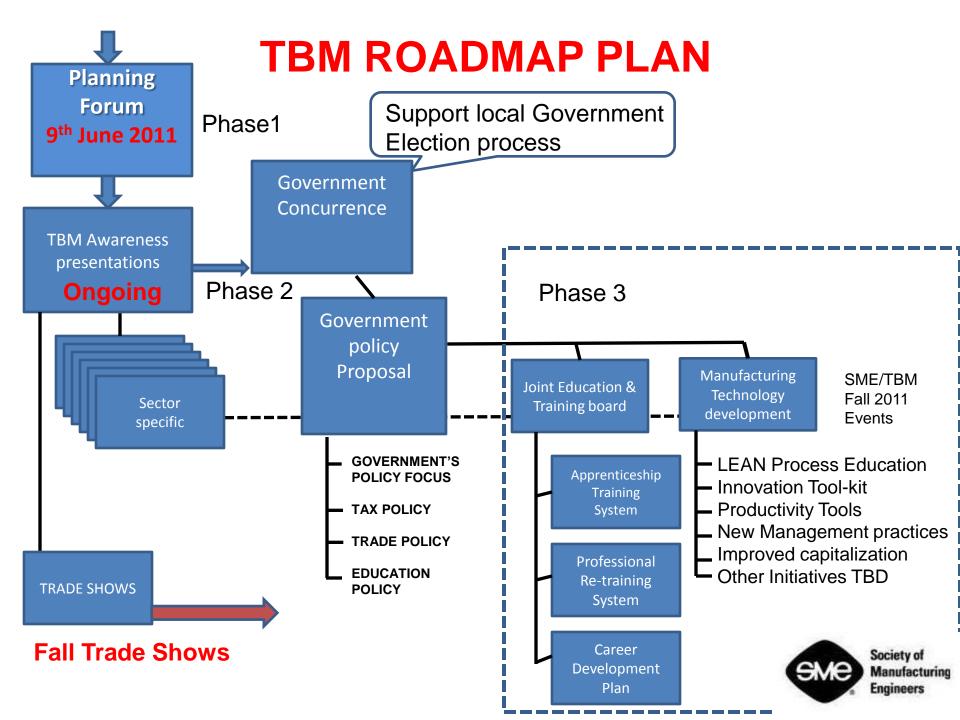
THE TBM ROADMAP

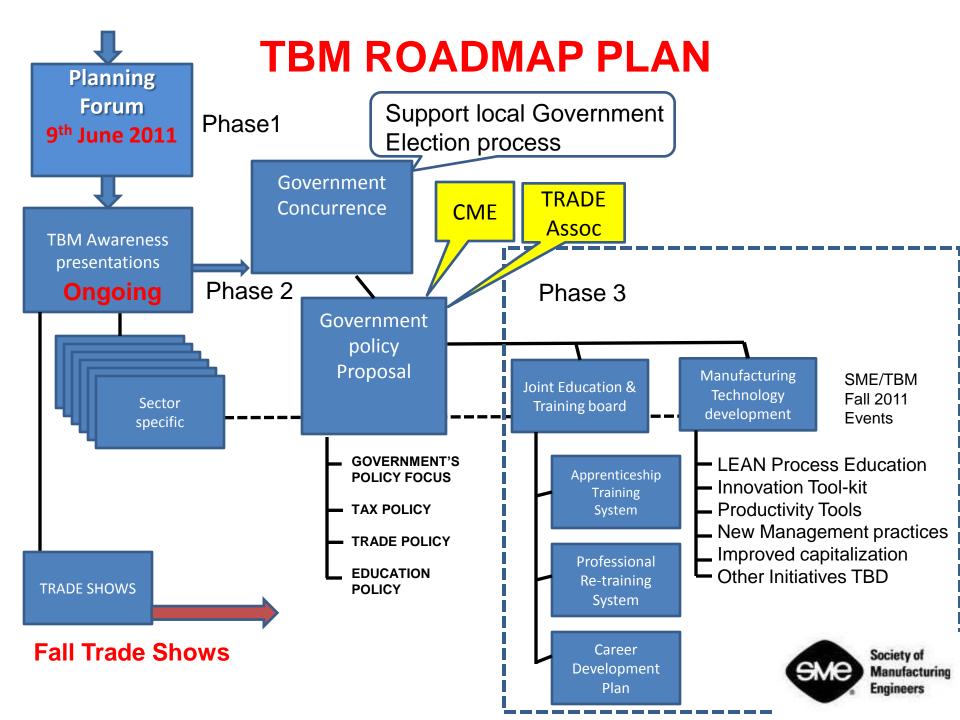


Take Back Manufacturing ROADMAP









CME 8-point Plan for a more competitive Canada

- 1 Lower taxes on those businesses that are investing in new products, new technologies, and the skills of their employees.
- 2 Extend the two-year straight-line depreciation for investments in manufacturing and processing machinery and equipment.
- **3** Encourage innovation and the commercialization of new products and technologies. Also, Improve SRED and make easy to use and apply to all facets of a business.
- 4 Help businesses develop and take advantage of international opportunities. We need to fight unreasonable protectionism and negotiate and enforce meaningful trade rules.
- **5** Enhance the competitiveness of North America's integrated industries supply chains. (Canada-US border and regulatory differences)
- 6 Improve the quality and availability of skilled workers. Focus on Real apprenticeship system across trades and technologies.
- 7 Strengthen Canada's energy and logistics infrastructure. (Secure, stable and cost competitive energy, transmission, transportation, and communications)

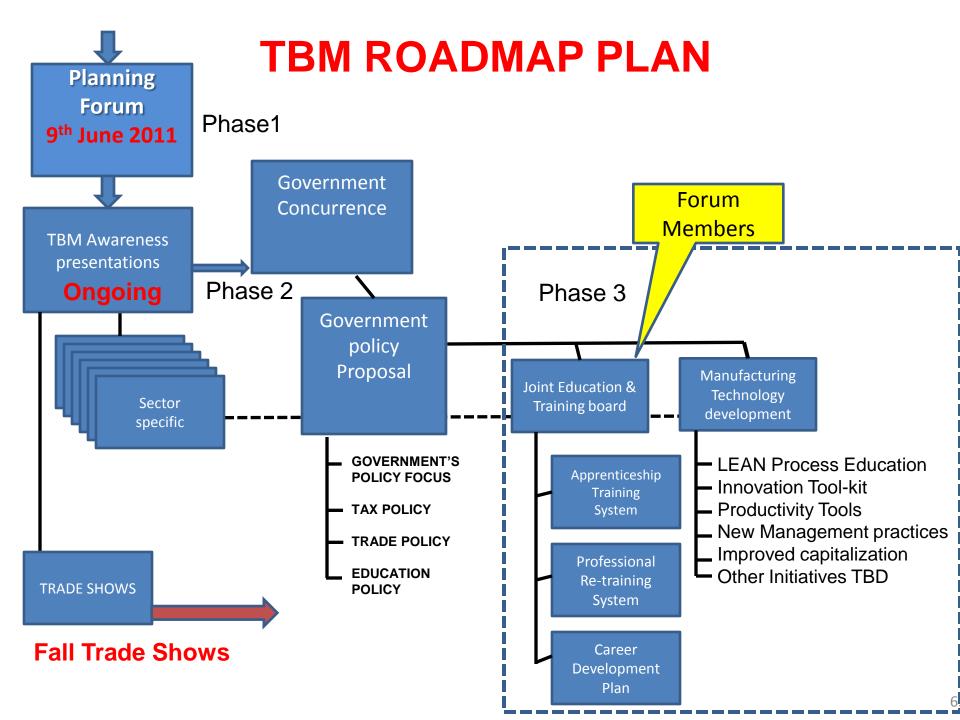
8 Improve regulatory efficiency. (Modernize legislation, eliminate regulatory differences, simplify compliance requirements, remove wasted efforts.



SUMMARY

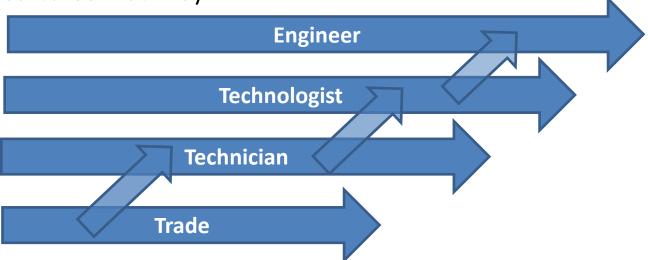
- We want to balance country level Imports and Exports. (without over reliance on natural resources)
- Earn the right to boost value adding Exports.
- This means Engineered Manufactured products.
- This means that we will need a strong domestic Redeveloped manufacturing base to provide the strength to undertake this.



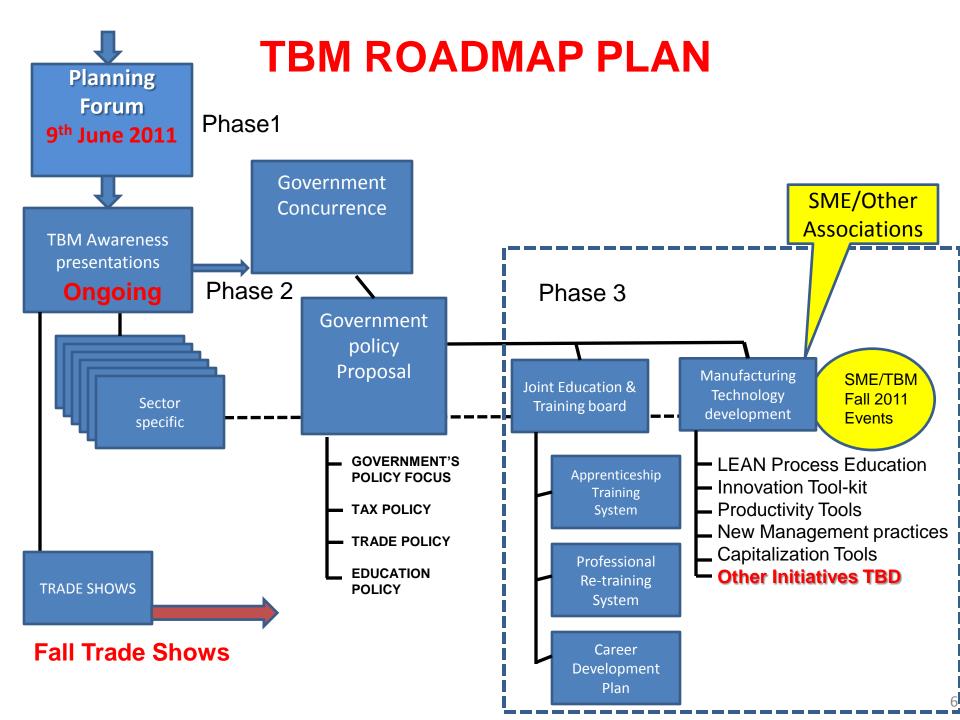


Recommend: New Apprenticeship Training VISION

• Integrated Career Pathway



- Industry Recognized Skills Development Progression
- Apprenticeship Pool From The Best, the Brightest And The Most Talented
- Starts In High School And Recognized As Most Valuable Component Of Workforce Development By Industry And Community
- Become The Learning/Occupation Destination Of Choice By High School Students
- Corp Apprenticeship Courses Are Transferrable And Articulated To Other Post Secondary Colleges And Universities, Supporting Lifelong Progression In Learning As Shown In Career Pathway Above



Manufacturing Technology Development

The SME Knowledge Roadmap.....

MEET I KNOW I GROW.....Take Back Manufacturing

SME and the TBM forum members offer this Evolution Roadmap for your TBM quest.

Sign-up for TBM as an SME member and Take Back Manufacturing for your business.

We will guide you through a "Self positioning survey" to get your team involved in the journey.

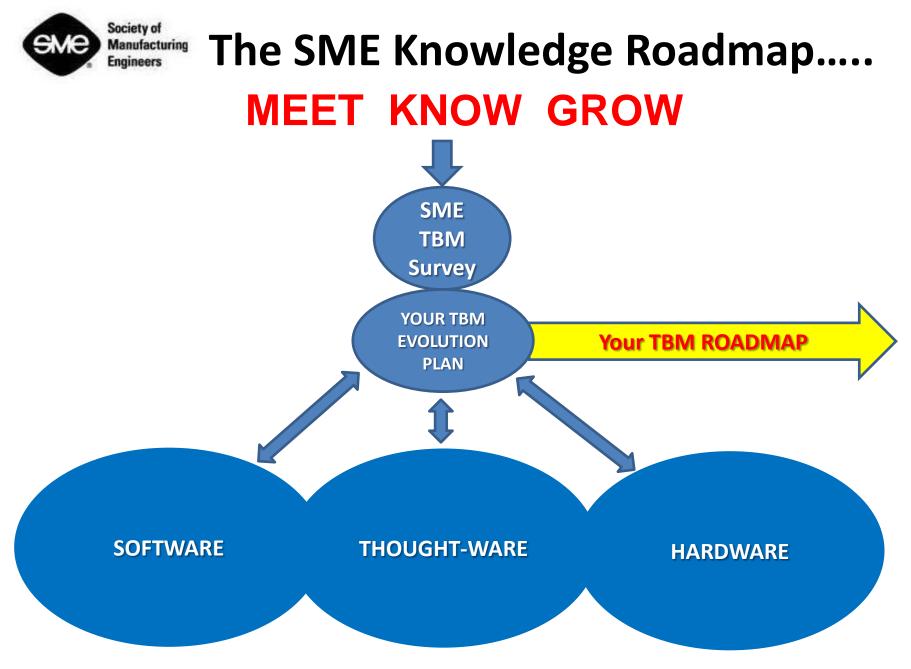
We can assist you define how your organization should approach its own specific TBM Evolution plan.

We ask ...do you have the Thought ware / Software / Hardware to be successful!!!!

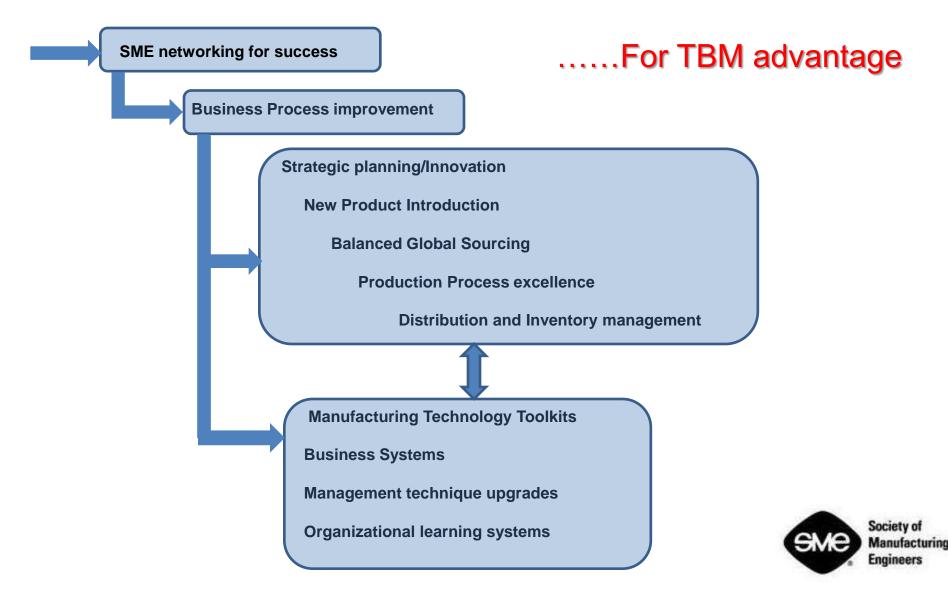
Then you decide how to engage your team in the TBM knowledge Roadmap.



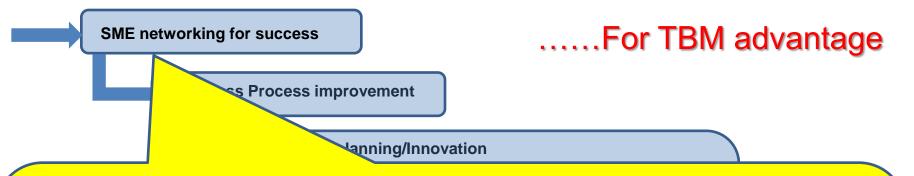
acturing



Organizing your : Thought-ware Software and Hardware....



Organizing your : Thought-ware Software and Hardware....



SME networking for success

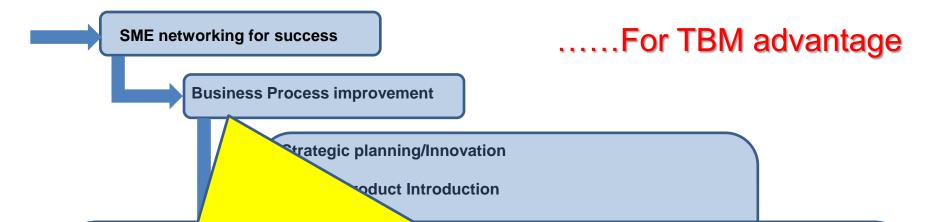
SME positioning survey for TBM..... Self calibrating your organizational capability. SME Evolution planning for success....The journey to Meet /Know /Grow How to attend a trade show for strategic advantage...rediscover the art form. SME swop meet... an online debating environment for our new MFG Practitioners Emerging New Manufacturing Technologies... an open forum to MEET/KNOW/GROW SME Student chapter symposium... let's get the new blood involved.

Management technique upgrades

Organizational learning systems



Organizing your : Thought-ware Software and Hardware....



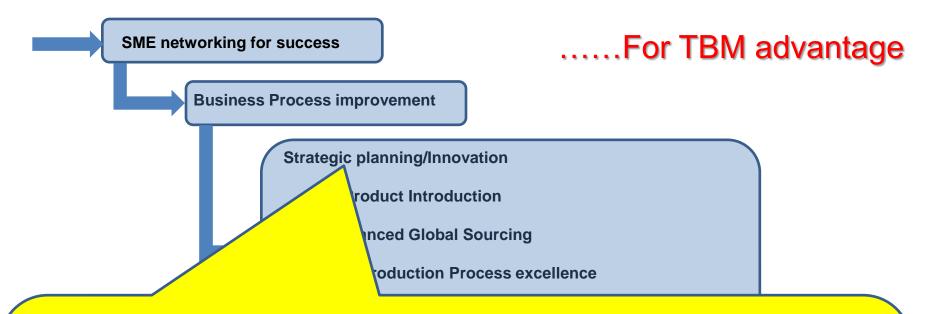
Business Process improvement

Lean benchmarking and workshop... where are YOU on the curve? Lean operational tours... what others are doing?....what can we learn? Lean certification and beyond... formalizing the improvement journey. New interactive performance measurements The driver for business excellence. LEAN accounting and Cost estimating seminar..... Making the better cost decisions Cost Of Poor Quality systems for measured improvement..... Essential tools

Organizational learning systems



Organizing your : Thought-ware Software and Hardware....

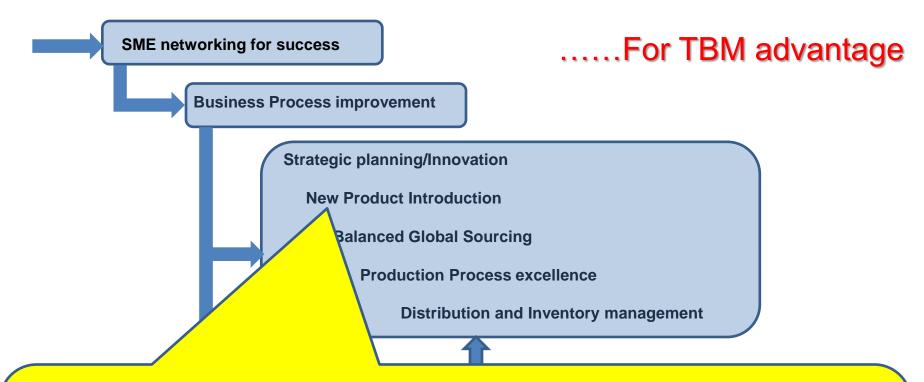


Strategic planning/Innovation

Executive workshop for Global success.... Join others to hone your own strategic plans. Lean Business awareness building workshops... how to get started or restarted How to improve the operation of a small business..A 6 step process for owners Market and business planning.... a way of life across the organization Innovation 101and how to implement. Innovation incubation.....Integrating the internal organizations together Recapitalizing the business process for flexibility and maximum payback

cturing

Organizing your : Thought-ware Software and Hardware....



New Product Introduction

NPI collaboration and control systems..... The forgotten yet critical business process
New product/New manufacturing process integration.. A step by step process
Six Sigma/DFMgetting results but keeping it simple!!
Rapid prototyping and product launch systems..... Essential to beat the competition.

cturing rs



Balanced global sourcing

Balanced sourcing.... Getting it right..This time!

Re-shoring trends in the Tooling and mould making industries

Supply-chain management and optimization

Supplier certification and scoring systems.

Balanced Global Sourcing

Production Process excellence

Distribution and Inventory management

Manufacturing Technology Toolkits

Business Systems

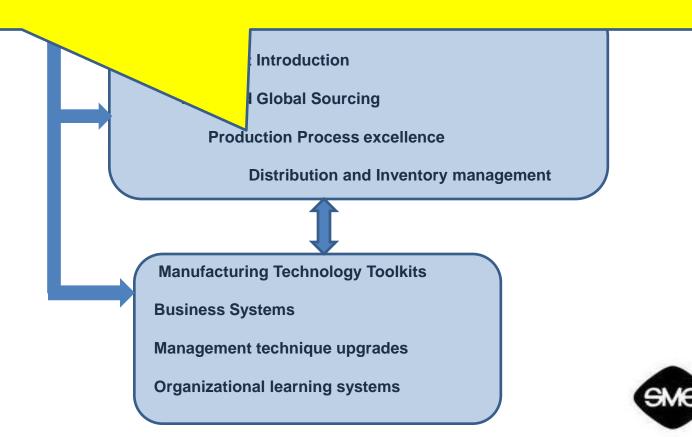
Management technique upgrades

Organizational learning systems



Production Process Excellence

LEAN Manufacturing Process design and simulation workshop Total Productive Maintenance... the essential for reliability Process flexibility design and improvement workshop Point meetings / 5S



Organizing your . Thought-ware Software and Hardware

Distribution and Inventory management

Global logistics systems Inventory management systems



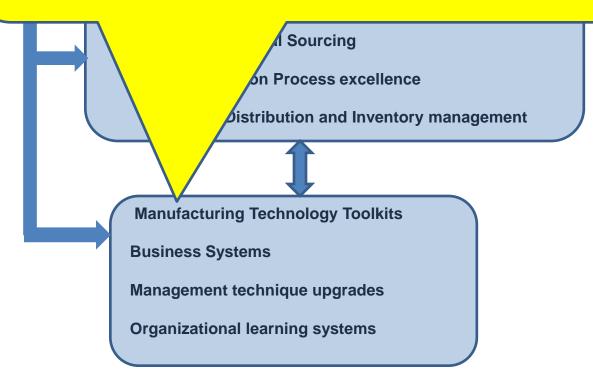


Organizing your . Thought-ware Software and Hardware

SM

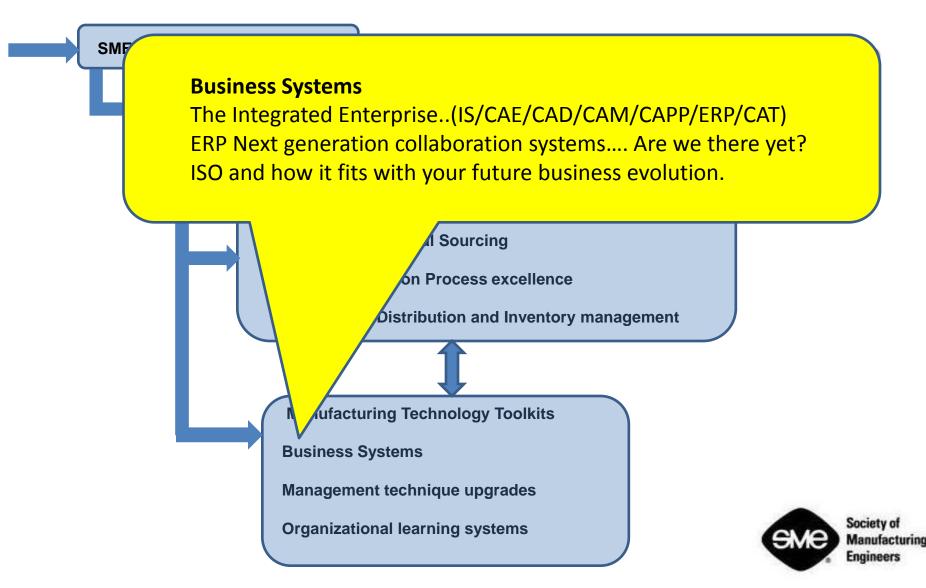
Manufacturing Technology Toolkits

CAD/CAM implementation workshop Robotic application design and programming workshop CNC machine tool application and programming workshop Advanced CAPP (Computer aided process planning) GD&Tmade easy and in perspective and what's next? Special interest topics by sector (TBD)





Organizing your : Thought-ware Software and Hardware....



Management technique upgrades

What is TBM and how to understand the economic trends and how they affect us all.. The new role of the Manufacturing Engineer..... Become the pivot point for TBM Organizational engagement systems... what and how? The new role of the management/bargaining unit team for TBM Continuous Improvement culture.... A complete 24/7 environment for flexibility and success The Evolution planner ... A Coordinator-for-Change Training Package Supervising in a LEAN environment... the new role/tools/techniques/operating practices Organizational team building workshops Creative problem solving and analysis tools Project leadership training

cturing Technology Toolkits

iness Systems

Management technique upgrades

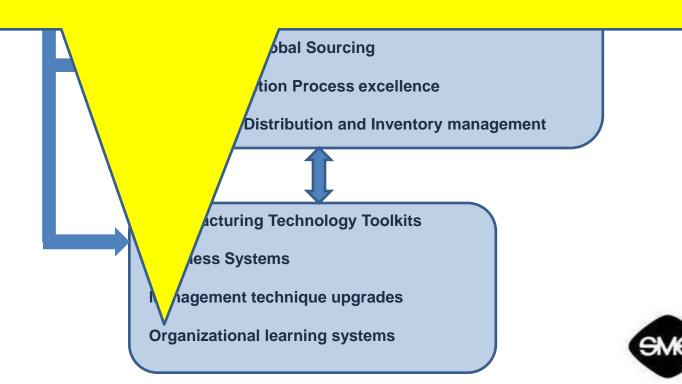
Organizational learning systems



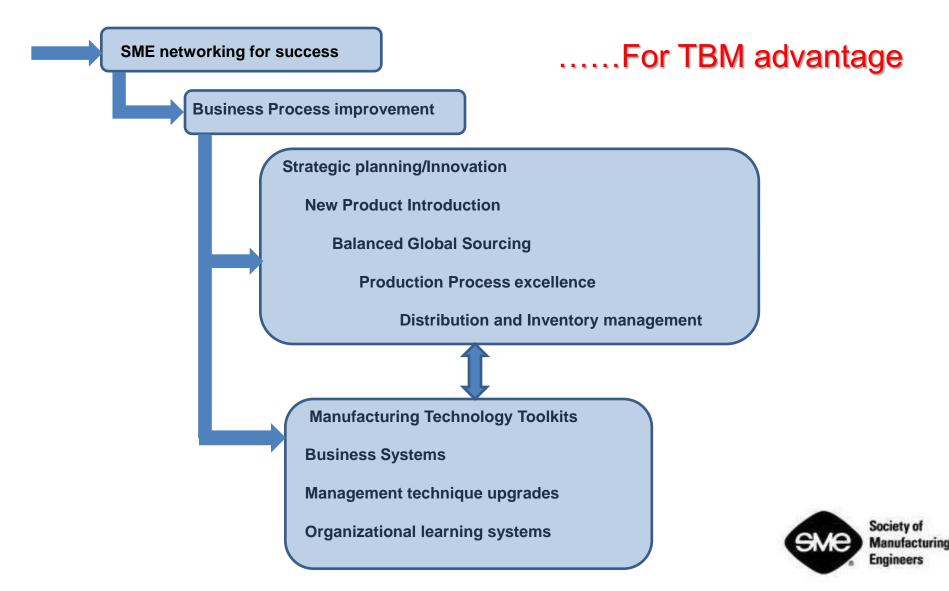
Organizing your . Thought-ware Software and Hardware

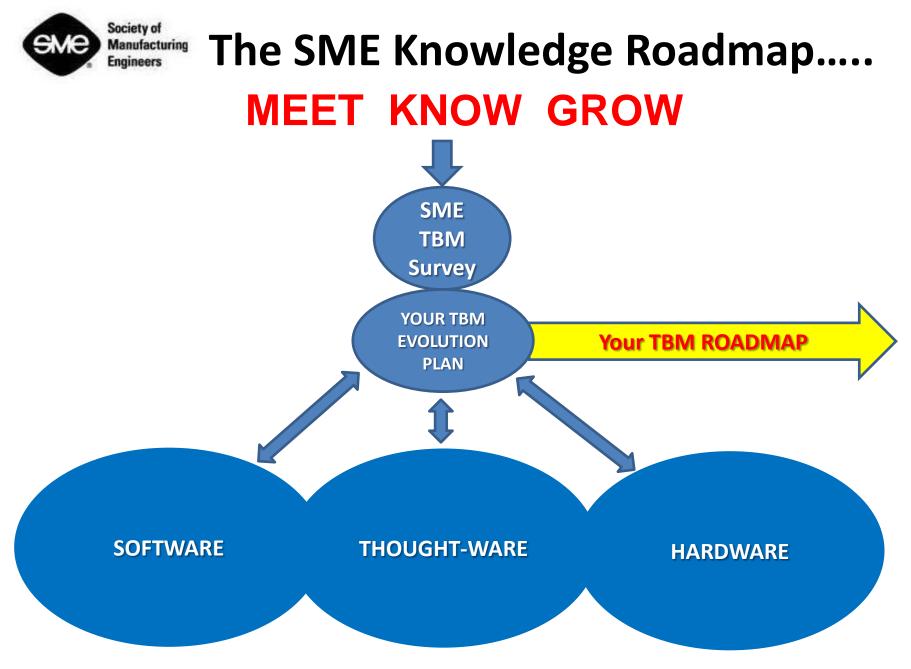
Organizational learning systems

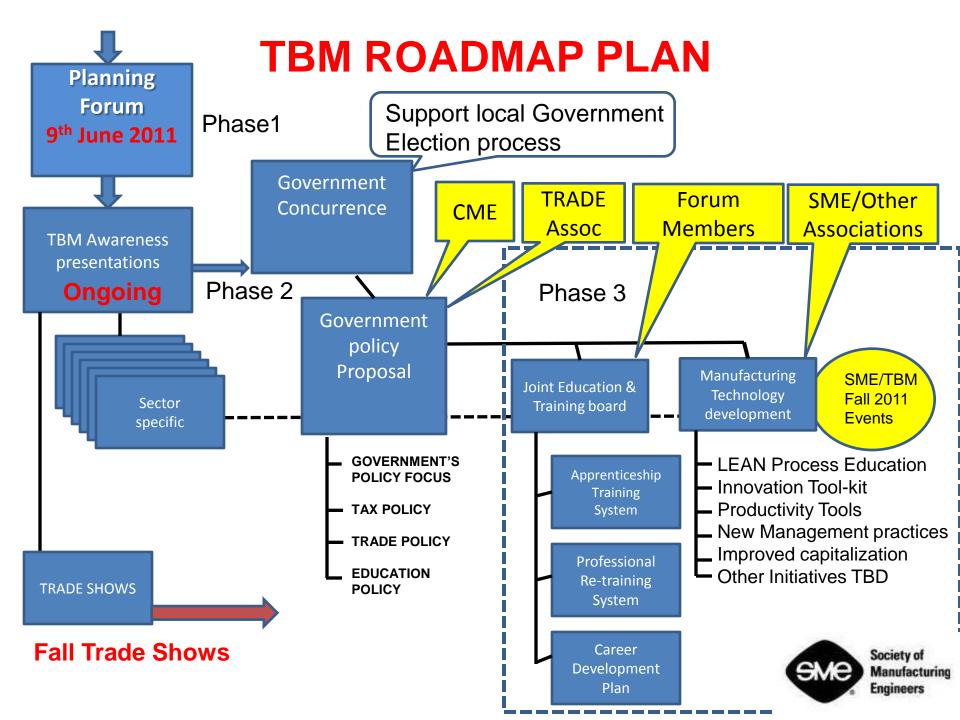
How to approach and utilize an apprenticeship system for your business How to build a formal employee training program. Understanding the latest government assistance programs for industry.



Organizing your : Thought-ware Software and Hardware....







THANKS

Your Job to help TBM?

Enter "Thumbs up" for TBM

Study the Information package. (more at http://sme-tbm.org)

Sign up for the TBM survey and TBM Roadmap

Get your sector Society/Association to join the TBM Forum.

HELP US HELP YOU!!!

