

Leadership for lean culture transformation:

Introduction to breakout session

&

Five precepts for lean enterprise change

Presented by

George Roth

Massachusetts Institute of Technology

April 2006



Agenda

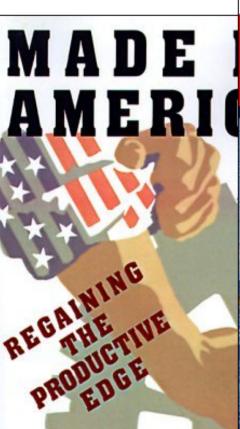
3:00 PM	Introduction: Leadership in lean culture transformation and goals of session	George Roth, MIT LAI, session chair	
3:10 PM	Progressing Toward a Shared Future Vision on the C-17 Globemaster III Program	Cleaveran Law (Boeing) and Erika Jackson- Scott (ASC)	
3:35 PM	Leadership and the Dynamics of Inter- organizational Communication and Development	Donald Greer and Laura Black (Greer Black Company) and Richard Adams (The Aerospace Corporation)	
4:00 PM	Developing a culture of network leaders	Stephen Chun (former VP Manufacturing, VP Business Development, Cirrus Design Corporation)	
4:25 PM	Transcending Structured Supply Chain Boundaries Using Defined Leadership Practice	Peter Weymouth (Time Wise Management Systems) and Gerri Redmond (Bath Iron Works)	
4:50 PM	Q&A (can extend discussion time to 5:30)	ALL presenters with audience	



Business Week Cover Story Nov. 17, 2003

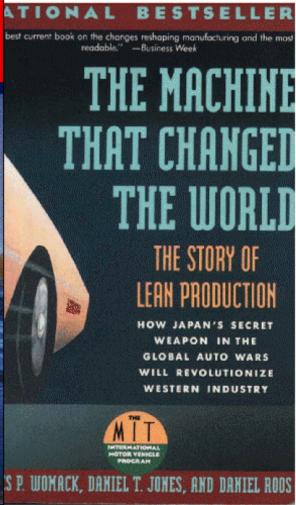
PROFIT BOOM 30 RESULTS FOR 900 THE ECONOMY
WHAT NOW FOR THE
DEMOCRATS? (8.130)

WHY FOR-PROFITS ARE SO HOT (9,70)





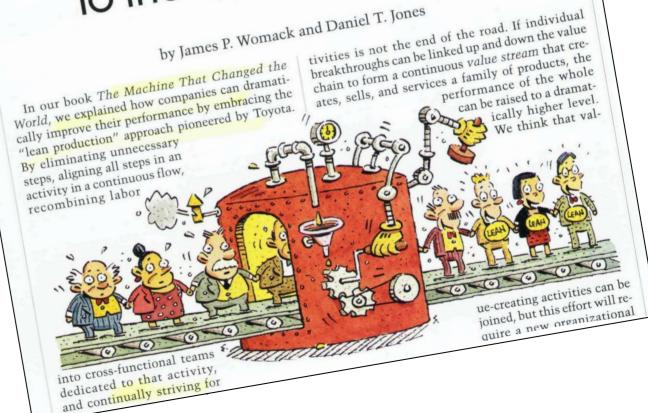






From Lean Production to the Lean Enterprise

by James P. Womack and Daniel T. Jones





Toyota story has been intensively

researched and painstakingly

documented.

yet what really

inside the

company

remainsa

mystery

Decoding the

DNA of the

Production

by Steven Spear and H. Kent Bowen

Here's new

insight into

the unspoken

rulesthat

give Toyota

its competitive

Fundamental Issues

Inno hand haifed as the acceptant of Translate

THE TOYOTA PRODUCTION SYSTEM HAS one and incomment of the Source of Toyota's manufaceman as a manufaceman manuface

The system's distinctive practices as a manufacturer, and onality circles, for instance—have been widely Outstanding performance as a manufacturer distinctive measure included as the source of 1000028 The system's distinctive practices—its kanban cards and quality circles, for instance—have been widely following their many and quality circles, for instance—have been widely introduced clsewhere Indeed, following their own mark the world's hear man. introduced elsewhere. Indeed, following their own internal efforts to benchmark the world's best manand Chrysler have.

internal efforts to benchmark the world's best manindependently created major initiatives to develop

independently created major initiatives to develop

and companies of the c independently created major initiatives to develop have tried to adopt the system can be found in fields

Toyota-like Production systems. Companies that as diverse as aerosanace. communer measures monale have tried to adopt the system can be found in fields as diverse as acrospace, consumer products, metals

What's carious is that few manufacturers have What's curious is that lew manufacturers have shown our common of the common our contractions of the contraction of the cont

managed to imitate Toyota successfully even about its mactices. Hundrock of thousands of exact open of thousands of exact open. about its practices. Hundreds of thousands of executives from thousands of husing have been extraordinarily open through the same through the same through the same transport to the same transport to

processing and industrial products.

Toyota's plants in Japan and the United States.

Frustrated by their inability to replicate Toyota's assume that the secret Pristrated by their inability to replicate Toyota's of Trivera's aurorase must be in ise cultural source.

Performance, many visitors assume that the secret has the case. Or her landace comma. of Toyota's success must lie in its cultural roots.

But that's fust not the case. Other Japanese companda have fallen short

But that's just not the case. Other Japanese compaof Towota's standards. and Honda, have fallen short

Towota's standards. and Towota has since short nies, such as Nissan and Honda, have fallen short introduced its production avatem all around the or Toyota's standards introduced its production system all around the world including in North America where the com-

introduced its Production system all around the world, including in North America, where the community teach milding overs a million care miniworld, including in North America, where the com-pany is this year building over a million cars, mini-

So why has it been so difficult to decode the Toy. ota Production System? The answer, we believe is toole and mactices they

ota Production System? The answer, we believe, is constructed with the tools and practices they are the tools and practices they is a trained to the system. that observers confuse the tools and practices they makes it impossible for them to resolve an annateur

Paradox of the system—namely, that activities, conare rigidly scrinted vet at the same time Toyota factory nections, and production flows in a Toyota factory are rigidly scripted, yet at the same time Toyota's and adamable and adamable. operations are enormously flexible and adaptable.

Antiviting and arrayangung are connectantly heims chaloperations are enormously flexible and adaptable.

Activities and processes are constantly being challevel of aerformance. Activities and processes are constantly being characteristic and processes are constantly being characteristic continually innovate and lenged and pushed to a higher level of performance, improve

To understand Toyota's success, you have to unvous have to see that the rigid

To understand Toyota's success you have to unspecification is the very thing that makes the rigid

to understand Toyota's success you have to unspecification is the very thing that makes the rigid specification is the very thing that makes the read that the read that the read that the dexispecification is the very thing that makes the flexito realize after an extensive four vear stroky of the bility and creativity Possible. That's what we came forcalize after an extensive, four-year study of the creations. System in which we examined

to realize after an extensive, four-year study of the the inner workings of more than 40 plants in the Toyota Production System in which we examined the inner workings of more than 40 plants in the some onerating of the some onerating the states. the inner workings of more than 40 plants in the according to the system some not. We studied both

United States, Europe, and Japan, some operating to the system, some not. We studied both manufacturers whose modulets according to the system, some not, we studied both ranged from oreisbricated housing, anto parts and process and discrete manufacturers whose products final auto assembly, cell phones, and computer

ranged from prefabricated housing auto parts and printers to injection-molded plastics and computer and aluminum

about its practices. Hundreds of thousands of executives from thousands of businesses have toured and the United States. utives from thousands of businesses have toured for their inability to tenlicate States. observers confuse the tools and practices ... with the system itself.

see on their plant visits with the system itself. That naridox of the system — namely that activities conmakes it impossible for them to resolve an apparent nections, and moduction flows in a Toyota factory ... activities and processes are constantly being challenged and pushed to a higher level of performance, enabling the company to continually innovate and improve.

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"Lean" cultural assumptions: 4 Rules at Toyota

- Rule 1: All work shall be highly specified as to content, sequence, timing and outcome
- Rule 2: Every customer-supplier connection must be direct, and there must be an unambiguous yes-or-no way to send requests and receive responses.
- Rule 3: The pathway for every product and service must be simple and direct
- Rule 4: Any improvement must be made in accordance with the scientific method, under the guidance of a teacher, at the lowest possible level in the organization

Source: "Decoding the DNA of the Toyota Production System" Spear & Bowen, HBR 99

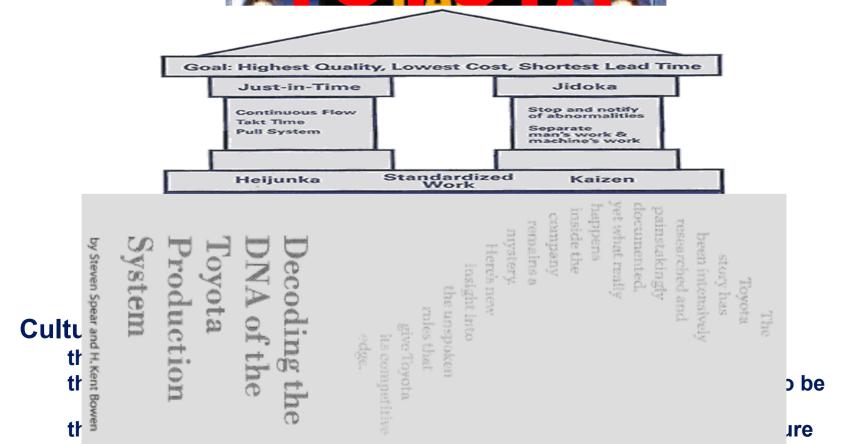


What is the "lean" culture?

A culture is a se world is and out determines their

THE RESIDENCE OF THE PARTY OF T

out how the of people and sand behavior.





Understanding Lean+Enterprise+Change

(understanding ← description) → theory → testing → prediction

What data can we draw upon?

- Books/documented studies
 - Toyota and "lean" i.e. <u>The Machine that Changed the World,</u> <u>The Toyota Way</u>, <u>Remade in America</u>, <u>Collaborative Advantage</u>
 - Management/leadership i.e. <u>Built to Last, Good to Great, Execution, The Leadership Engine</u>
 - Corporate/leadership i.e. <u>Jack</u>, <u>Who Says Elephants Can't</u> Dance?
 - Strategy/Change i.e. <u>The Innovating Organization</u>, <u>Leading Change</u>, <u>Breaking the Code of Change</u>, <u>The Dance of Change</u>
- New case studies that develop and test concepts – successful "lean" change

lean+change

change+enterprise

_ lean+ enterprise+change



Successful Lean Enterprise Change

What does it take?

Rethinking organizational boundaries

- View own organization with suppliers and customers as a contiguous value stream
- extend the domain to include organization's environment

Installing sets of organizational innovations

- Complementarities of practices
- extend the scope to include sets of changes as coherent programs

Pushing and pulling change

- Set in place the structure and process that enables virtuous learning and change
- extend the tools to integrate the two divergent change approaches

Seeking growth opportunities

- Project positive vision for continual renewal
- extend the strategy to build in growth and development

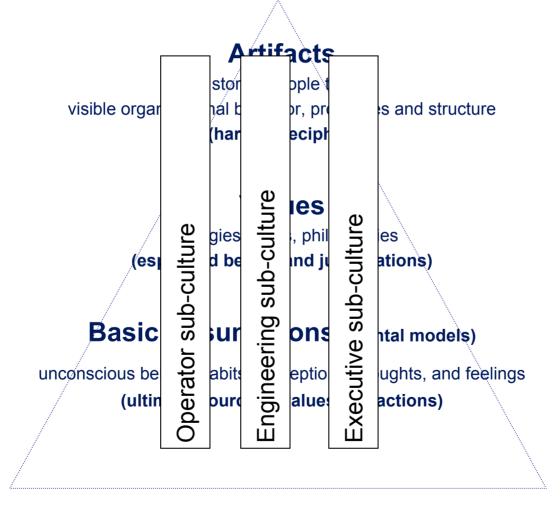
Distributing leadership practices

- Recognizing interdependent roles in a system of leadership
- extend the leadership to all levels of the enterprise



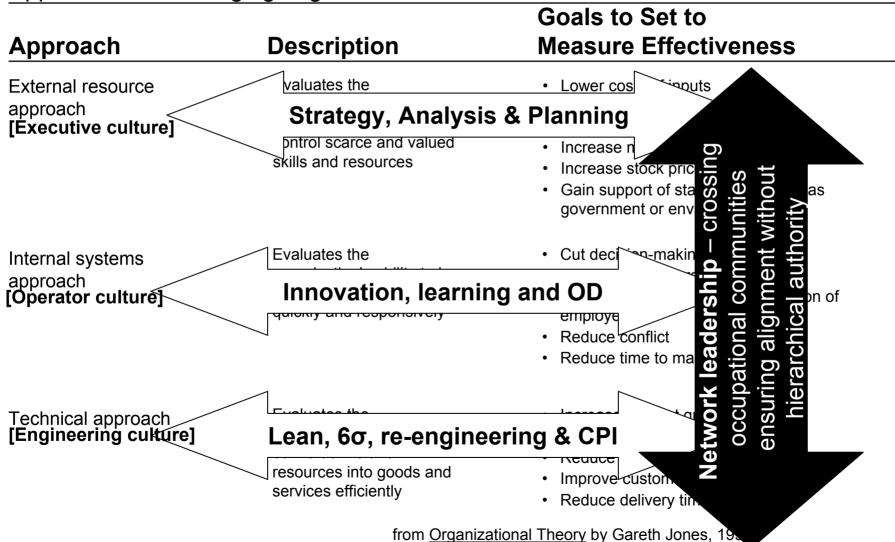
Organizational Culture Model

"occupational communities" generate cultures that cut across organizations





Approaches to Managing Organizational Effectiveness





Presentations

Progressing Toward a Shared Future Vision on the C-17 Globemaster III Program Cleaveran Law (Boeing) and Erika Jackson-Scott (ASC)

Leadership and the Dynamics of Interorganizational Communication and Development Donald Greer and Laura Black (Greer Black Company) and Richard Adams (The Aerospace Corporation)

Developing a culture of network leaders

Stephen Chun (former VP Manufacturing, VP Business Development, Cirrus Design Corporation)

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Q&A (can extend discussion time to 5:30)



How will we learn across these presentations?

4 Questions → compare and contrast:

4	Presentation Questions	Progressing Toward a Shared Future Vision on the C-17 Globemaster III Program	Leadership and the Dynamics of Inter-organizational Communication and Development	Developing a culture of network leaders	Transcending Structured Supply Chain Boundaries Using Defined Leadership Practice
1)	What did leaders initially do?				
2)	What did leaders do differently?				
3)	What was expected when these changes were made?				
4)	Specific implications of "lean" for leadership?				