

Adapting our TWV Strategy

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There is always a need to do it better, and smarter....





**Renault AG
Taxi de la Marne**

September 1914

The first automotive transport of troops...



The Operational Environment...



Specific Threats



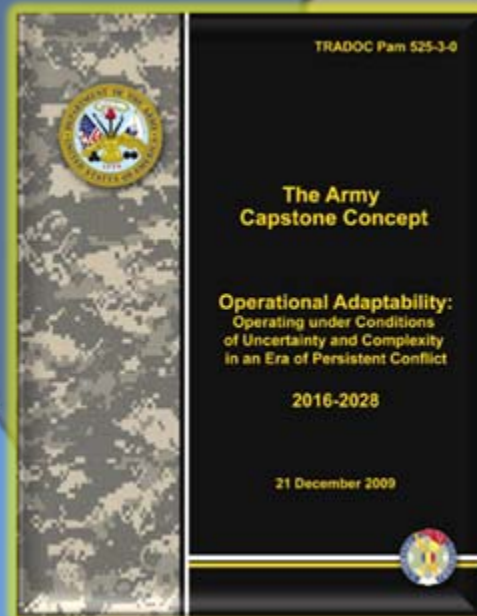
Evolving Threats



“we must emphasize the integration of technology into capable formations commanded by innovative leaders who are comfortable operating under conditions of ambiguity and uncertainty.

To maximize the potential of technological developments, we must conscientiously *evolve and adapt* capabilities based on changes in threat capabilities and the operational environment”

GEN Martin Dempsey, CG TRADOC





Tactical Wheeled Vehicle Strategy

Operational Environment



Available Technology



Available Resources



POM 12-17

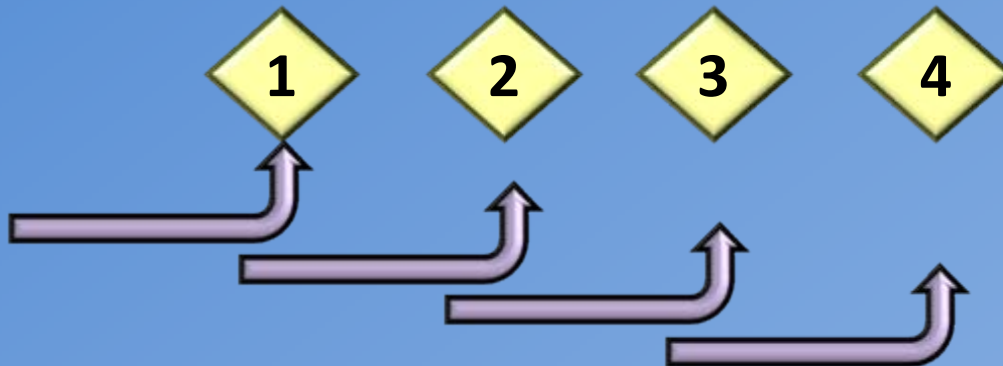
FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18
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1

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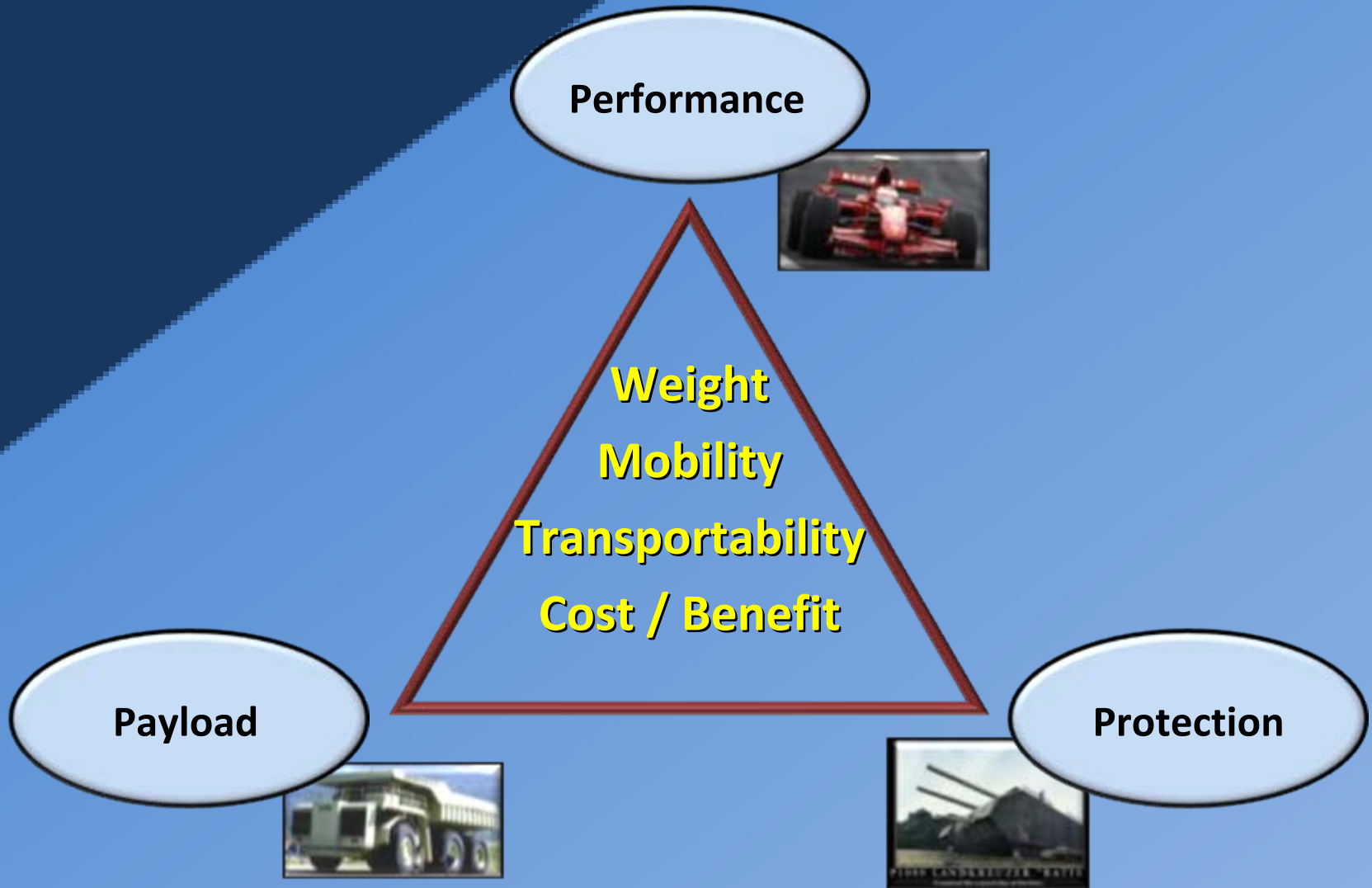


Decision Point

Reset
Recap
New Buy
Quantity

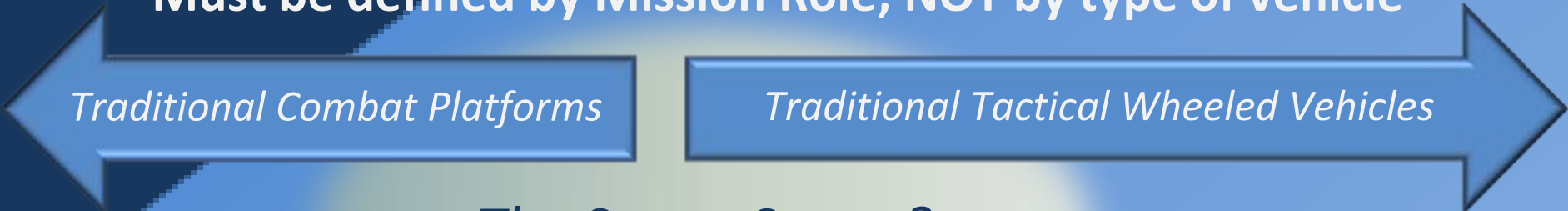


The Challenge...



Tactical Wheeled Vehicle vs. Combat Vehicle Characterization

Must be defined by Mission Role; NOT by type of vehicle



The Sweet Spot...?

GCV?




The New York Times

**Effective and
Efficient use of
manpower, other
resources...**

Gates Says U.S. Army's Size Will Grow by 22,000
By ELISABETH BUKHLEER
Published July 28, 2009

WASHINGTON — Defense Secretary [Robert M. Gates](#) on Monday announced a temporary increase in the size of the [Army](#) of up to 22,000 troops to meet what he called the “persistent pace” of operations in Iraq and Afghanistan.

[Enlarge This Image](#)



Mark Wilson/Getty Images
Defense Secretary Robert M. Gates, left, and Adm. Mike Mullen at the Pentagon

The increase, to occur over the next three years, will raise the size of the Army to 569,000 active-duty soldiers. An expansion to 547,000 soldiers, announced by Mr. Gates in 2007, was completed in May.

Currently there are about 130,000 American troops in Iraq and about 60,000 expected in Afghanistan by the end of the year. Although there is a [scheduled reduction](#) of close to 80,000 troops in Iraq, most will not start to come home until after March 2010.

“The Army faces a period where its ability to continue to deploy combat units at acceptable fill rates is at risk,” Mr. Gates said, meaning that he was concerned that Army units sent to Iraq and Afghanistan in the future might not have enough soldiers. He spoke at a Pentagon news conference with Adm. [Mike Mullen](#), the chairman of the [Joint Chiefs of Staff](#).

Mr. Gates did not say what the increase would cost over all, but indicated he would ask Congress for money to pay for it in 2011 and 2012. He estimated the cost in the fiscal year that ends in October at “less than a hundred million dollars” and in fiscal 2010 at \$1 billion. He said he would absorb the costs in 2009 and 2010 into the existing Pentagon budget.

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**CYRUS
COMING SOON**



Fully Burdened Cost of Fuel...

**Total
Operational
Costs**

Fully Burdened Cost of Trucks...



A Business Case for Change

Today...

***15,363 Soldiers
2340 Tankers
Gen – \$9.8 M/day
Avn - \$8.4 M/day***

***... a twenty percent
improvement in fuel
efficiency...***

Possible...

- Increase 3072 combat troops***
- Less Exposure Hours***
- \$3.6 M/day Fuel Savings - \$1.3 B/year***



“...robotics offer the potential to deploy appropriate combinations of manned and unmanned systems to perform an increasing range of tasks”

(Army Capstone Concept)

Guiding Principles ...

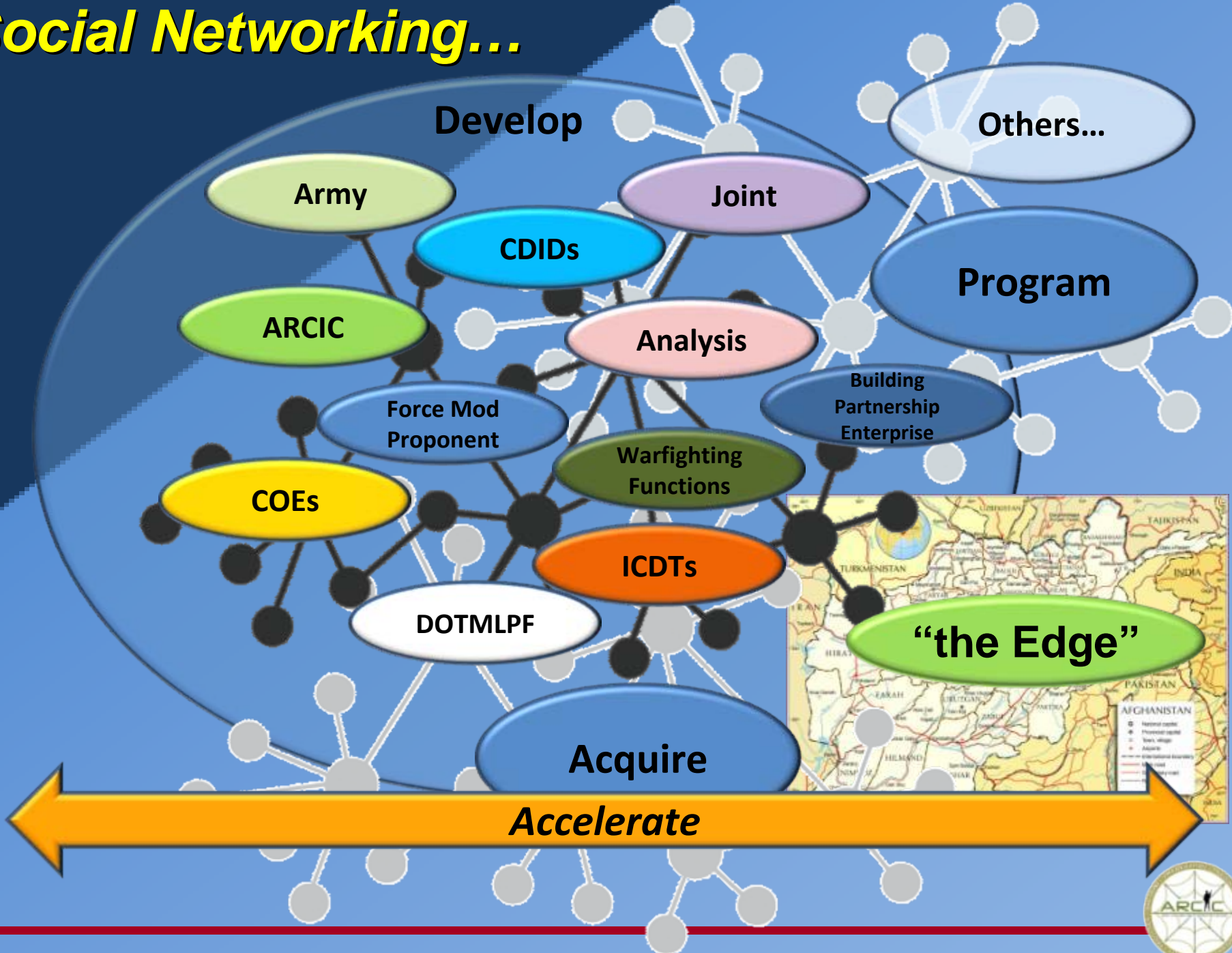
- **Robotics enable the humans**
- **Humans should not have to accommodate**
- **Early user and technology developer collaboration**
- **Use “system of system” to measure effectiveness**
- ***Get more from force structure ; Cost / Benefit***



Connecting Soldiers ...



Social Networking...



Better ways to do business?...

Learn, adapt, learn, adapt...

Buy fewer, more often...



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