



Predicting Training Impacts

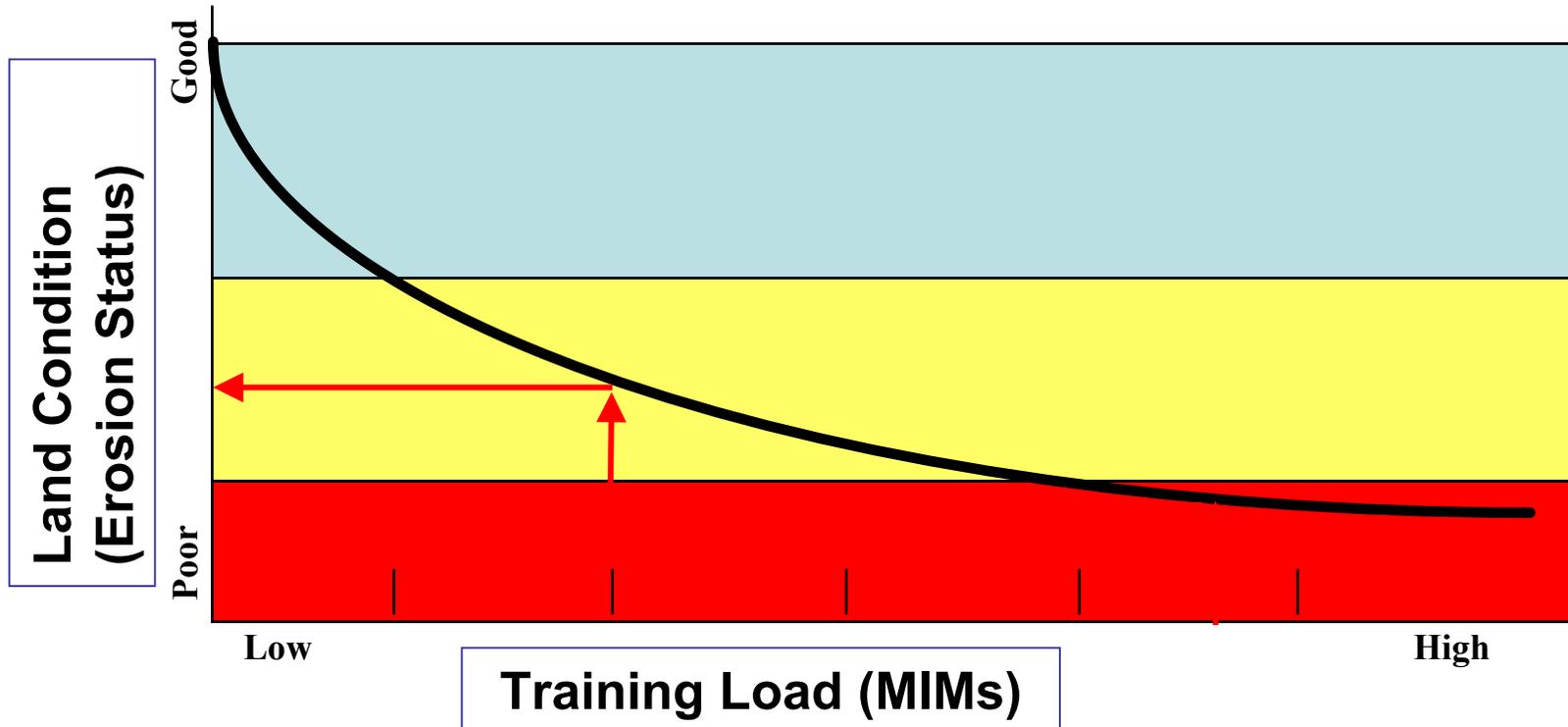
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Training Analysis Mission

- What will the **training impact** of the new transformation force be on my maneuver lands?
- What do I predict the maneuver **land condition** to be as a result of the transformation force training?
- Where and how can units **train to standard** while limiting the negative impact on maneuver lands?
- Include the answers to these questions in the Transformation Environmental Impact Statements (EIS) and Installation Land Management Planning.

ATTACC's Basic Principle

Land Condition Decreases as Training Load Increases



Estimating Training Impact and Land Condition

- Use the Army Training and Testing Area Carrying Capacity (ATTACC) Methodology.
 - **Carrying Capacity**: The amount of training a given parcel of land can accommodate in a sustainable manner.
 - **Training Load** consists of:
 - Army Vehicles and their 3 training impact factors.
 - Training Events and the vehicle miles driven.
 - Measured in Maneuver Impact Miles (MIMs)
 - **Land Condition** measures actual & potential water-wind-dust erosion with a few simple indicators (ex. vegetative cover, soil type, slope & rainfall).
- The relationship between changes in training load and land condition is known and quantifiable.

Training Load Components

➤ Maneuver Impact Mile (MIM)

-- One M1A1/2 tank traveling one mile in an Armor Battalion FTX

➤ Training Impact Factors (Vehicle)

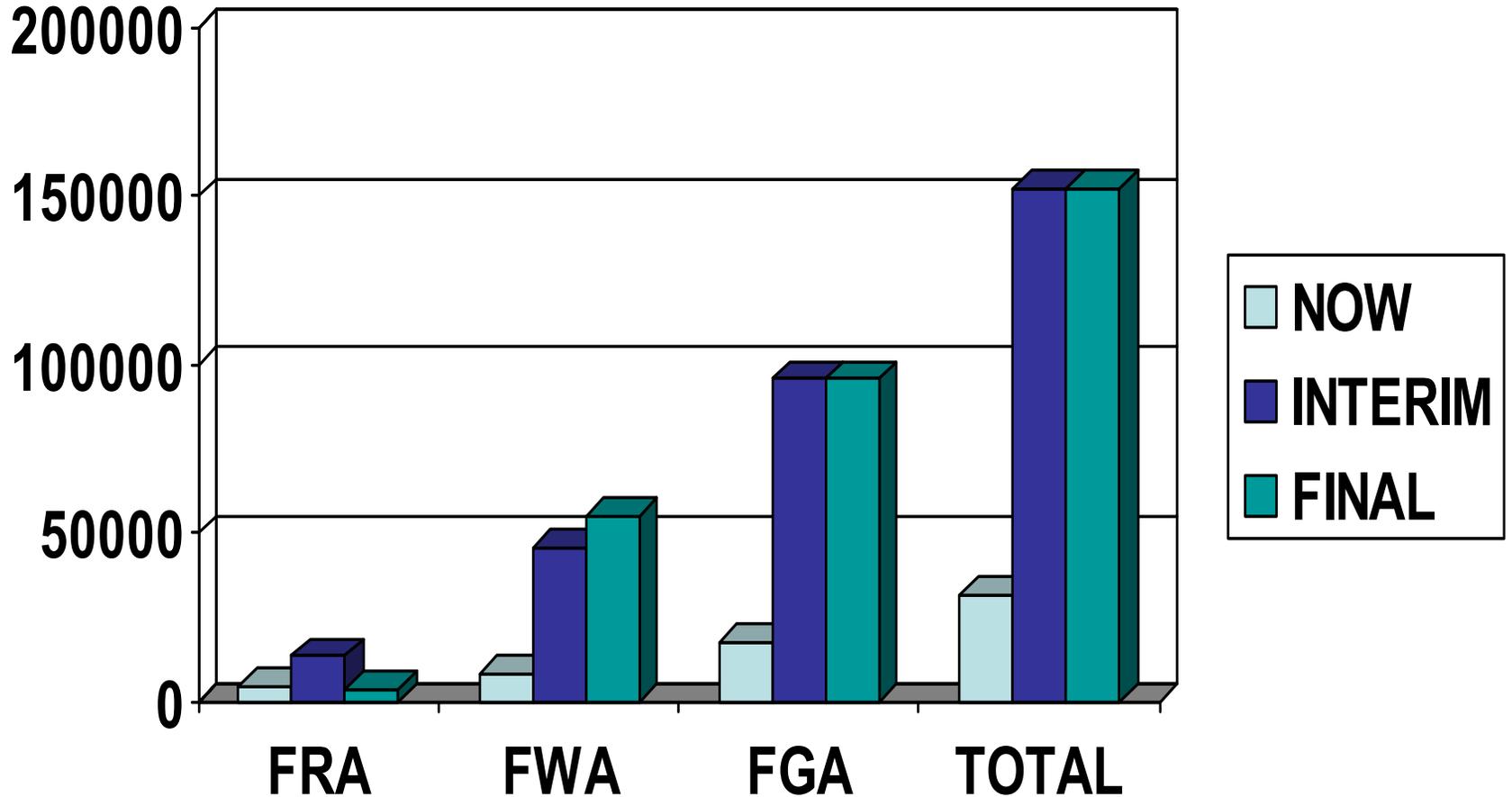
-- Vehicle Conversion Factor (VCF) – Vehicle footprint.

-- Vehicle Severity Factor (VSF) – Impact on soil/vegetation.

-- Vehicle Off-road Factor (VOF) – % time spent off-road..

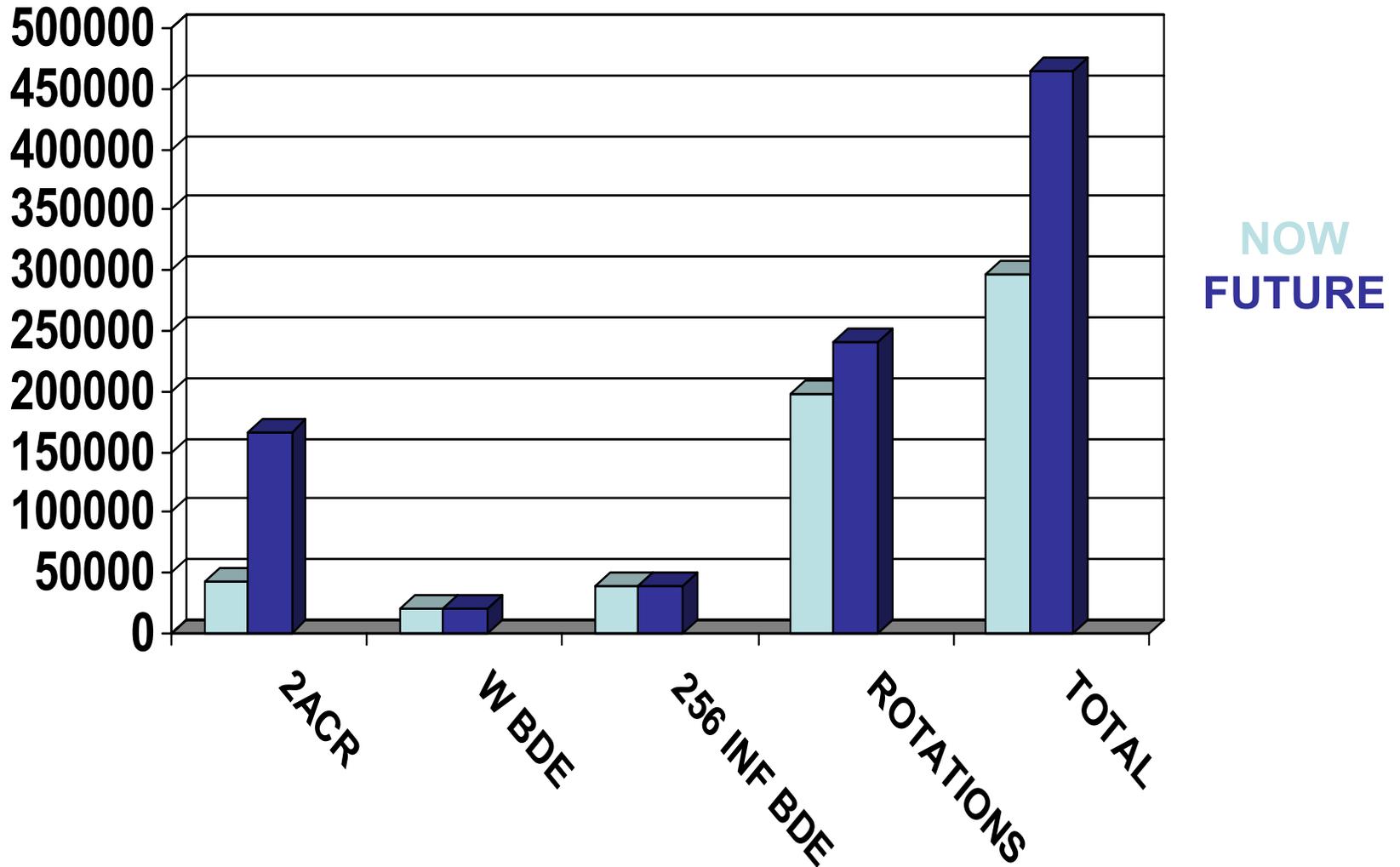
	VCF	VSF	VOF
M1 TANK	1	1	1
HMMWV	.4	.3	.6
STRYKER w/AOA.	.8	.8	.8

Results – U.S. Army Alaska

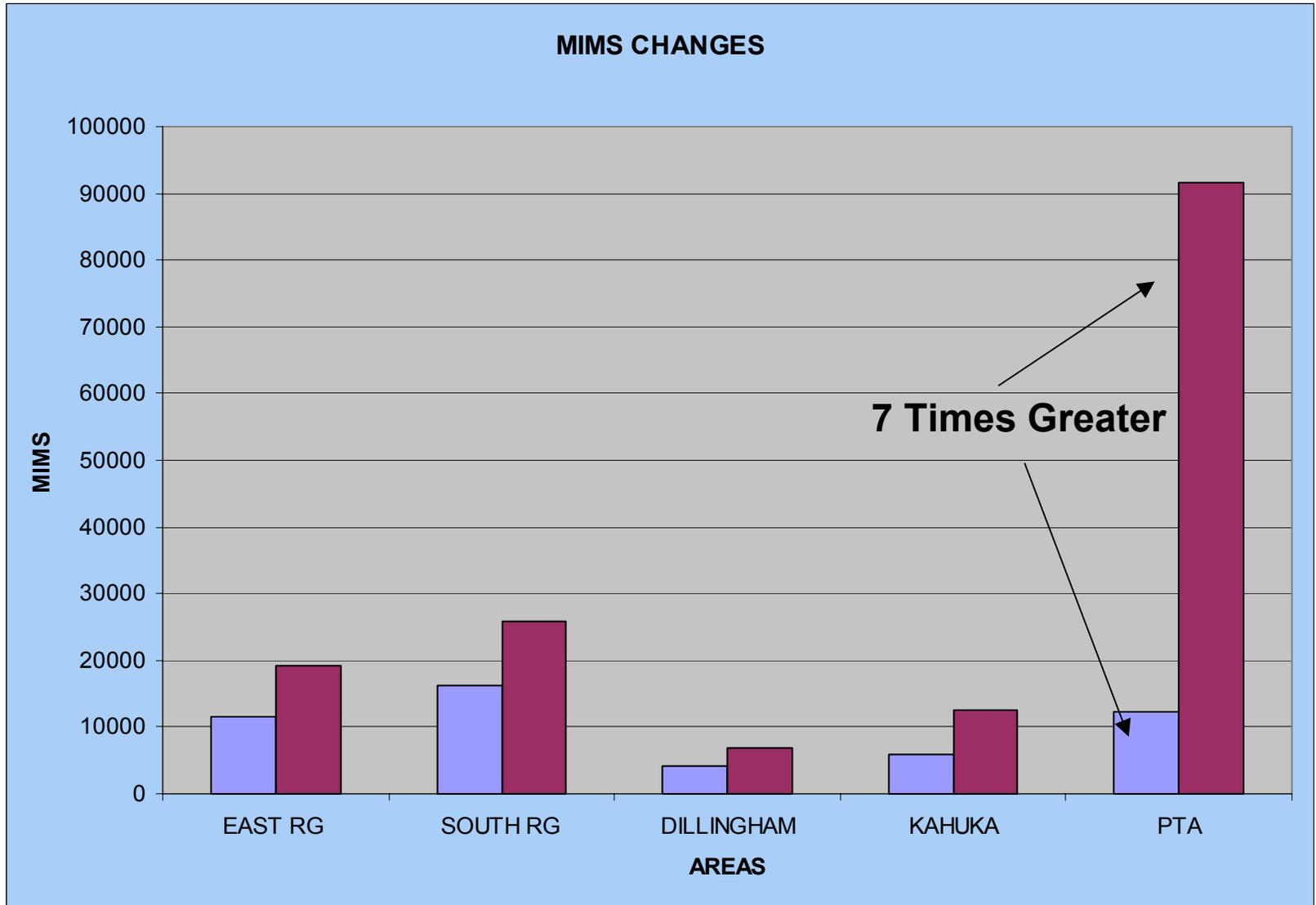


INTERIM: ONE INF BN WILL REMAIN AT FRA DURING CONSTRUCTION PHASE AT FGA.

Results – Fort Polk / JRTC



Results – U.S. Army Hawaii



Lessons Learned ?

- **Baseline Information essential, but not always there:**
 - Who trained where and what did they do?
 - What is your current land condition, and do you have the data to draw the Land Condition Curve?

- **Guessing at New Training Doctrine, Tactics and Strategies:**
 - What will the new units really do (ex. mounted or dismounted training) and where can they do it (ex. existing or new training areas)?

- **Just because transformation or stationing decisions seem illogical or the process too hard doesn't eliminate the NEPA requirements and staff support.**