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Identifying High Performance Indicators for Close Combat Forces



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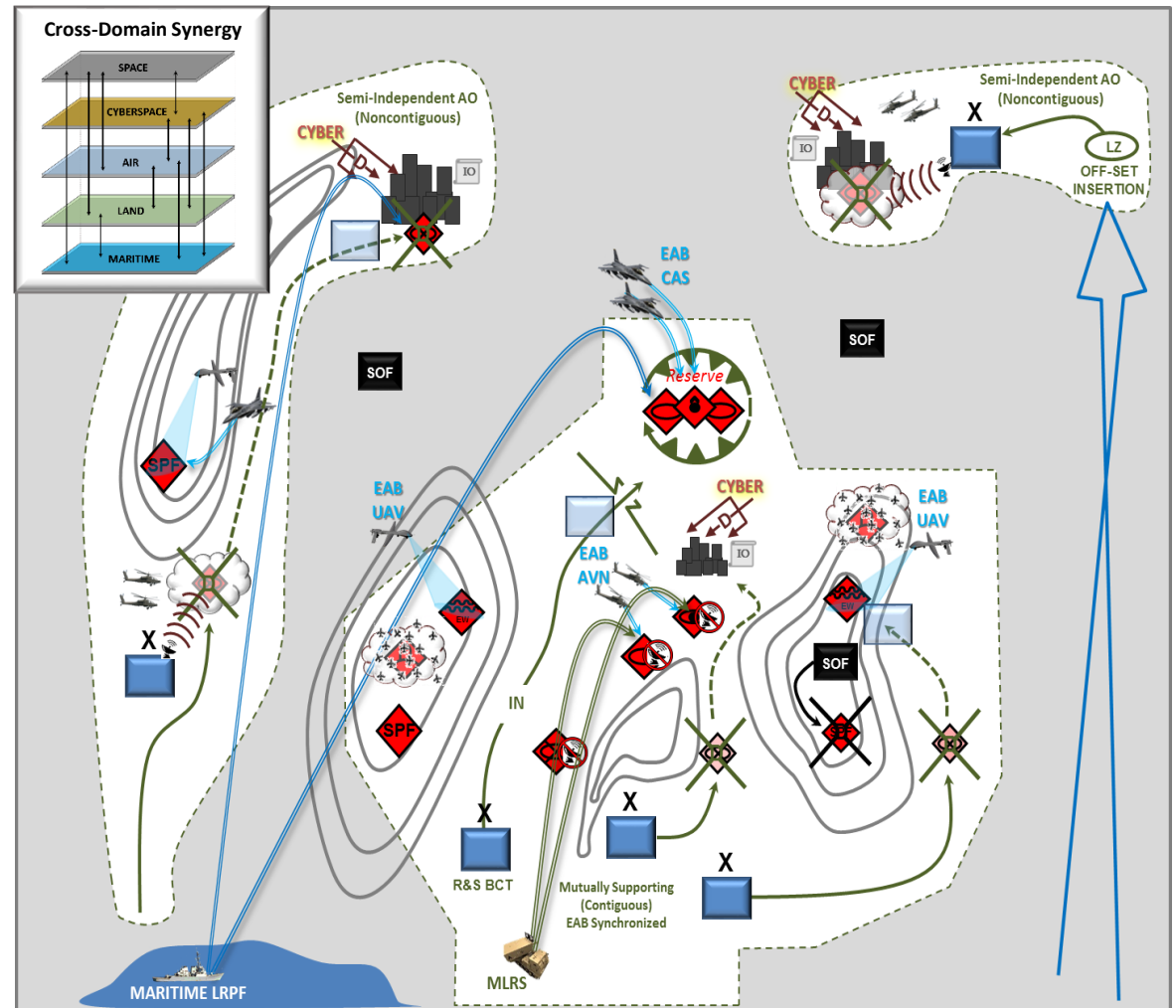


High Performance Indicators (HPI) Study

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Background

- Future multi-domain battlefields projected to have near-peer threats
- Optimization of human performance in parallel with material solutions to achieve overmatch
- Infantry One Station Unit Training (IN OSUT) focused on increasing proficiency and performance





High Performance Indicators (HPI) Study



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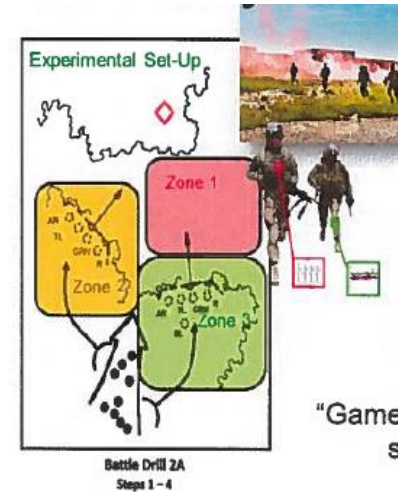
MASTR-E

- Short-term structured, acute assessment of Soldier performance
- 72 hrs



Squad Performance Model

- Squad-based assessment
- Collective performance during battle drills





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High Performance Indicators (HPI) Study



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Study Questions:

1. What are the physical, psychological, and physiological high performance indicators (HPIs) in initial trainees for Close Combat Forces?
2. How can HPIs be used to improve training programs, assist recruiting, impact selection methods, and reduce attrition in Close Combat Forces?

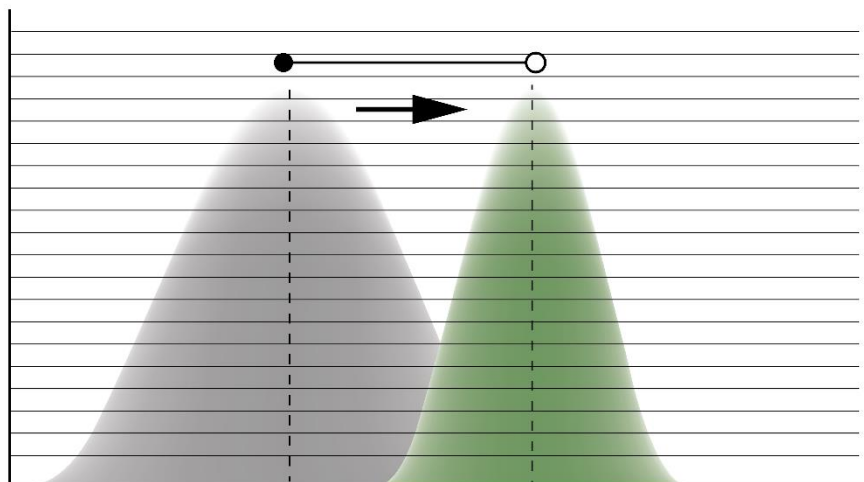
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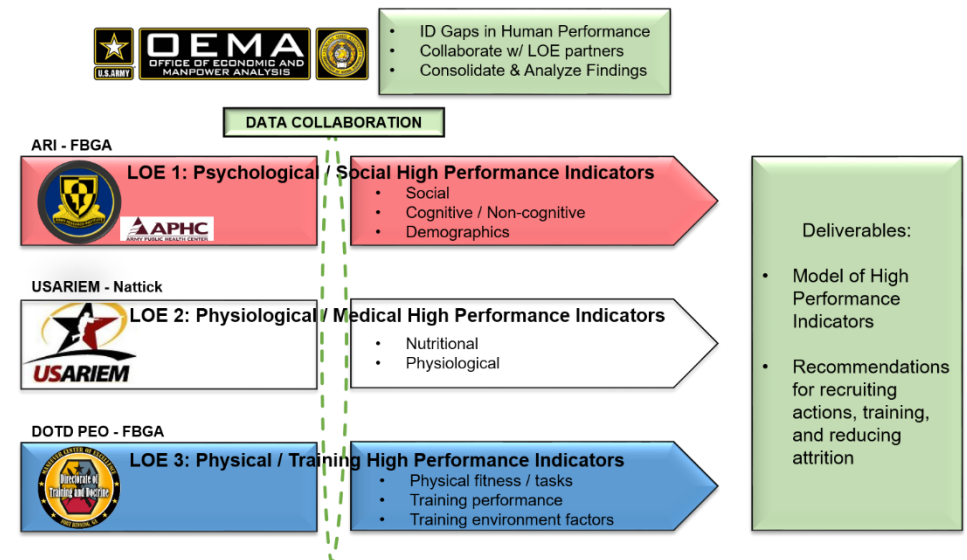
Methodology



- “Success Case Method”¹
 - “Success Case” = selectee for SFAS/RASP1
 - ID traits/attributes w/ highest correlation to success
 - Enhance traits/attributes in larger population
 - “Shift the Bell Curve”



- Comprehensive Performance Evaluation²
 - Multi-disciplined approach
 - Connect & correlate data
 - Model relationships
 - Validate results





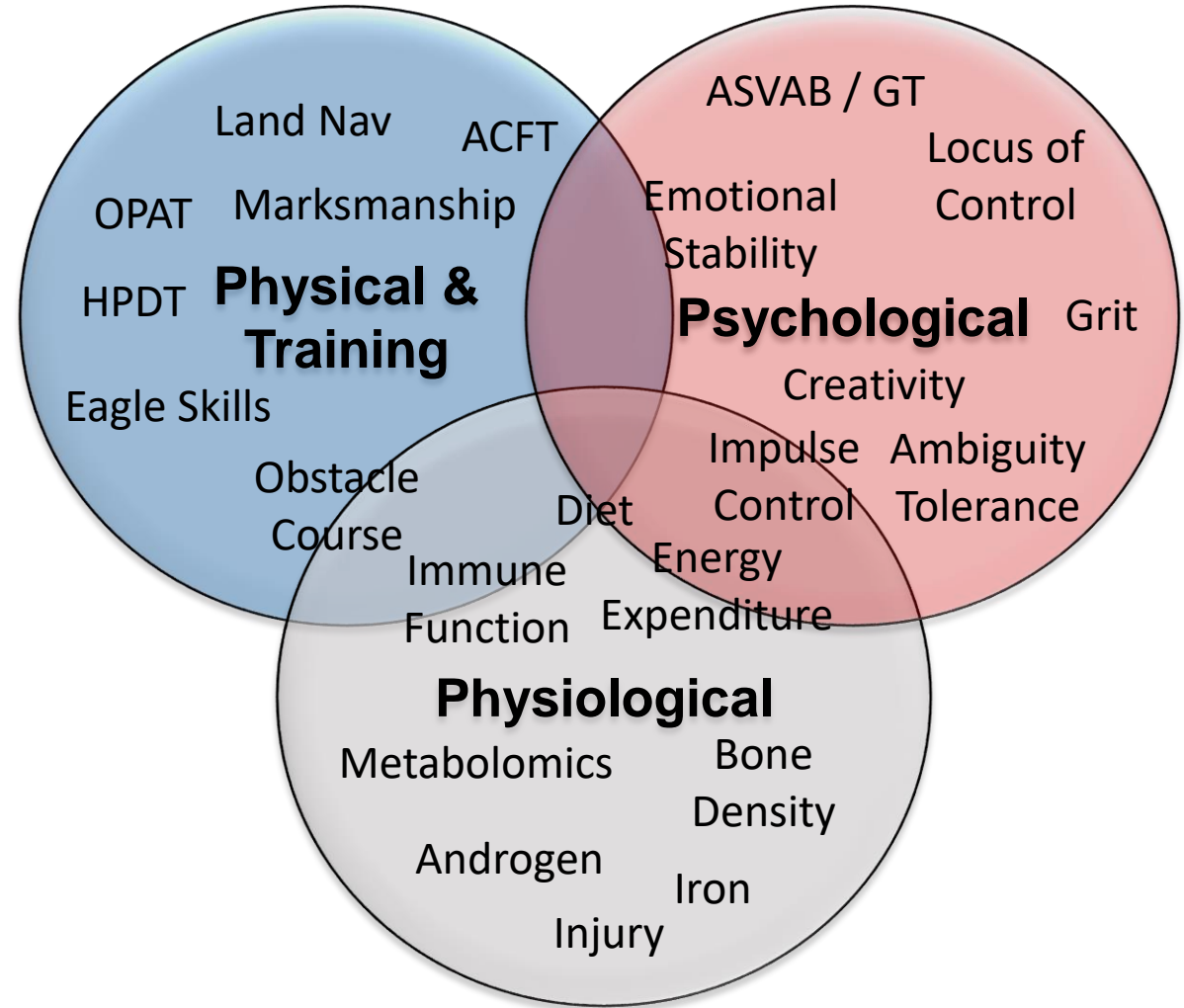
Data Collection



- Comprehensive data: pre-OSUT through Selection
- Quantitative and qualitative data collection
- 200-350 individual data points per Soldier

Unit	30 th AG	198 th IN BDE	75 th / SWCS	
Phase	Pre-OSUT	Blue Phase	Gold Phase	RASP / SFAS
	<ul style="list-style-type: none"> • 1-2 days prior to ship* • Administer informed consent • Computer-based psychological assessment / demographics • 1 x Focus Group (18X; 6 x trainees) • 1 x Focus Group (Rgr; 6 x trainees) 	<ul style="list-style-type: none"> • Post Blue Phase • Paper survey <ul style="list-style-type: none"> • Confidence • Injuries • 1 x Focus Group (18X; 6 x trainees) • 1 x Focus Group (Rgr; 6 x trainees) • Peer evaluations 	<ul style="list-style-type: none"> • End/Post Gold Phase • Computer-based psychological assessment / demographics • 1 x Focus Group (18X; 6 x trainees) • 1 x Focus Group (Rgr; 6 x trainees) • Peer evaluations • DS/LNO assessment survey 	<ul style="list-style-type: none"> • RASP / SFAS • Psychological assessments • Performance Assessments • Exit interviews

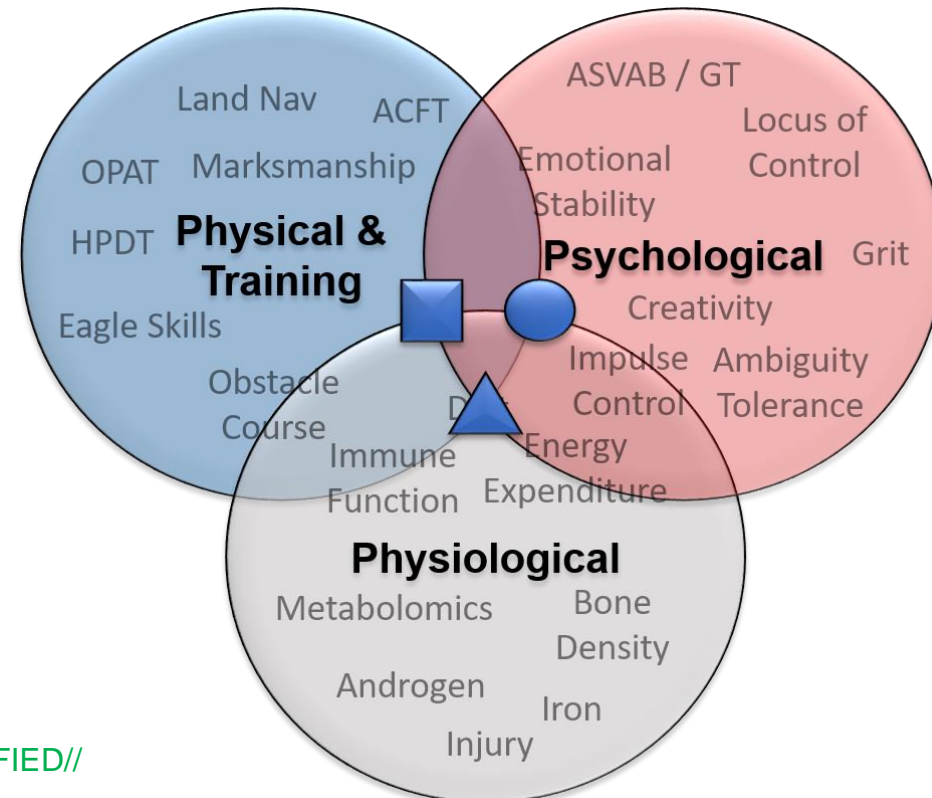
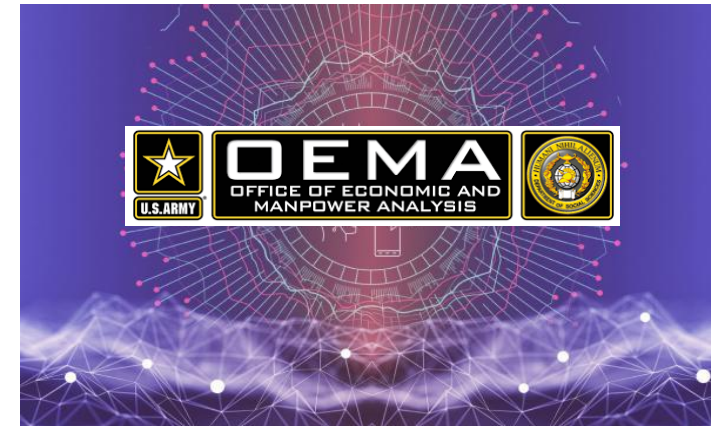
*Dependent on # trainees



Data Analysis

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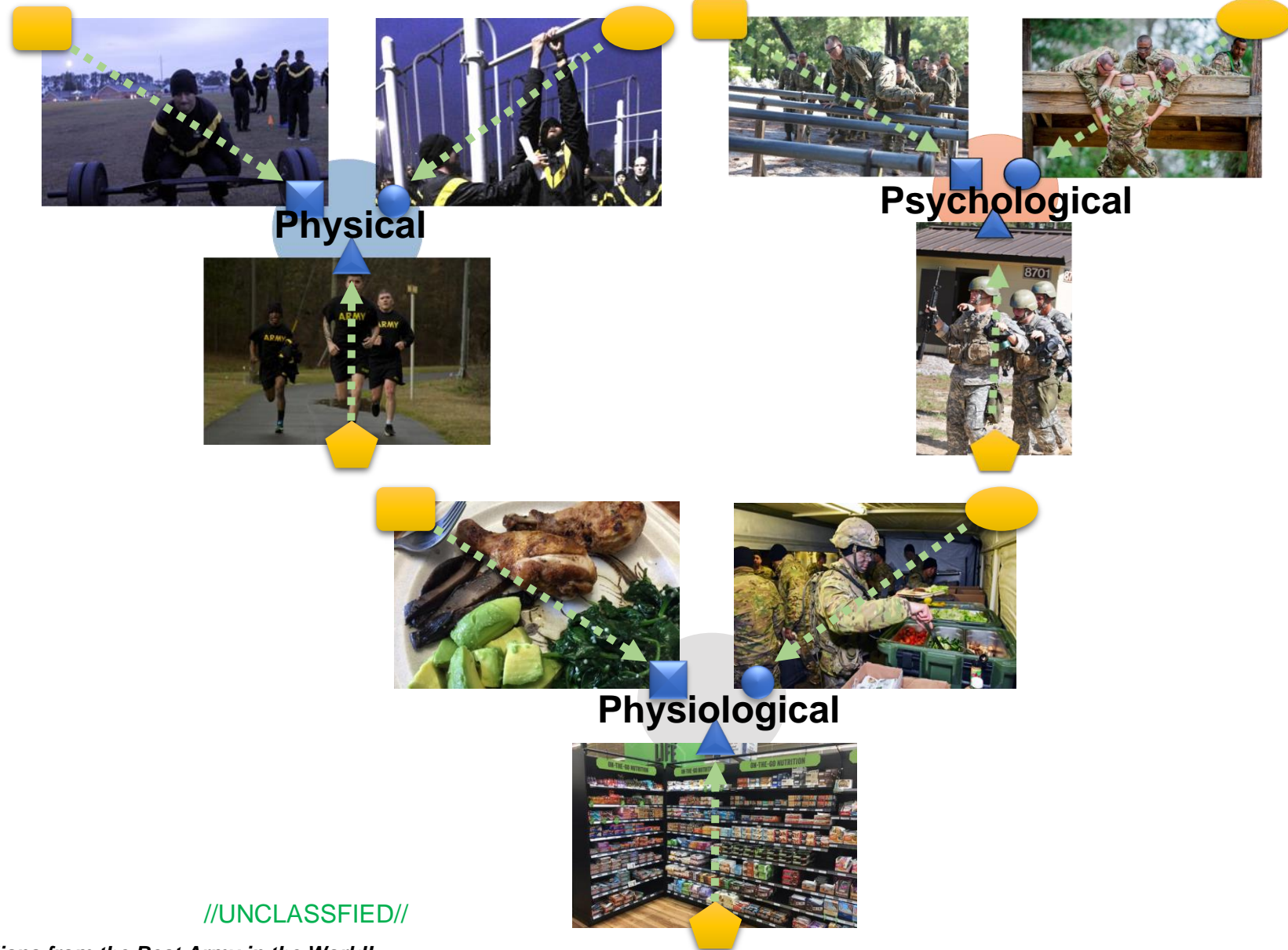
- Office of Economic and Manpower Analysis (OEMA) at West Point
- Machine learning to analyze ~650k data points
 - 200-350 data pts. / Soldier
 - ~3,000 Soldiers / year
- Multiple targeted profiles for success



Potential Performance Interventions

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- Identify success profiles most closely associated with Soldier
- Modify existing training event conditions
- Interventions must be feasible at scale





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Questions



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