

Delivering Intellectual Overmatch

“We cannot simply rely on mass or the best technology. In the future, that technology may be in the hands of our opponents...Put plainly, we require leaders at all levels who can **achieve intellectual overmatch** against adversaries.”

Joint Chiefs of Staff
Guidance, May 2020

Intellectual Overmatch

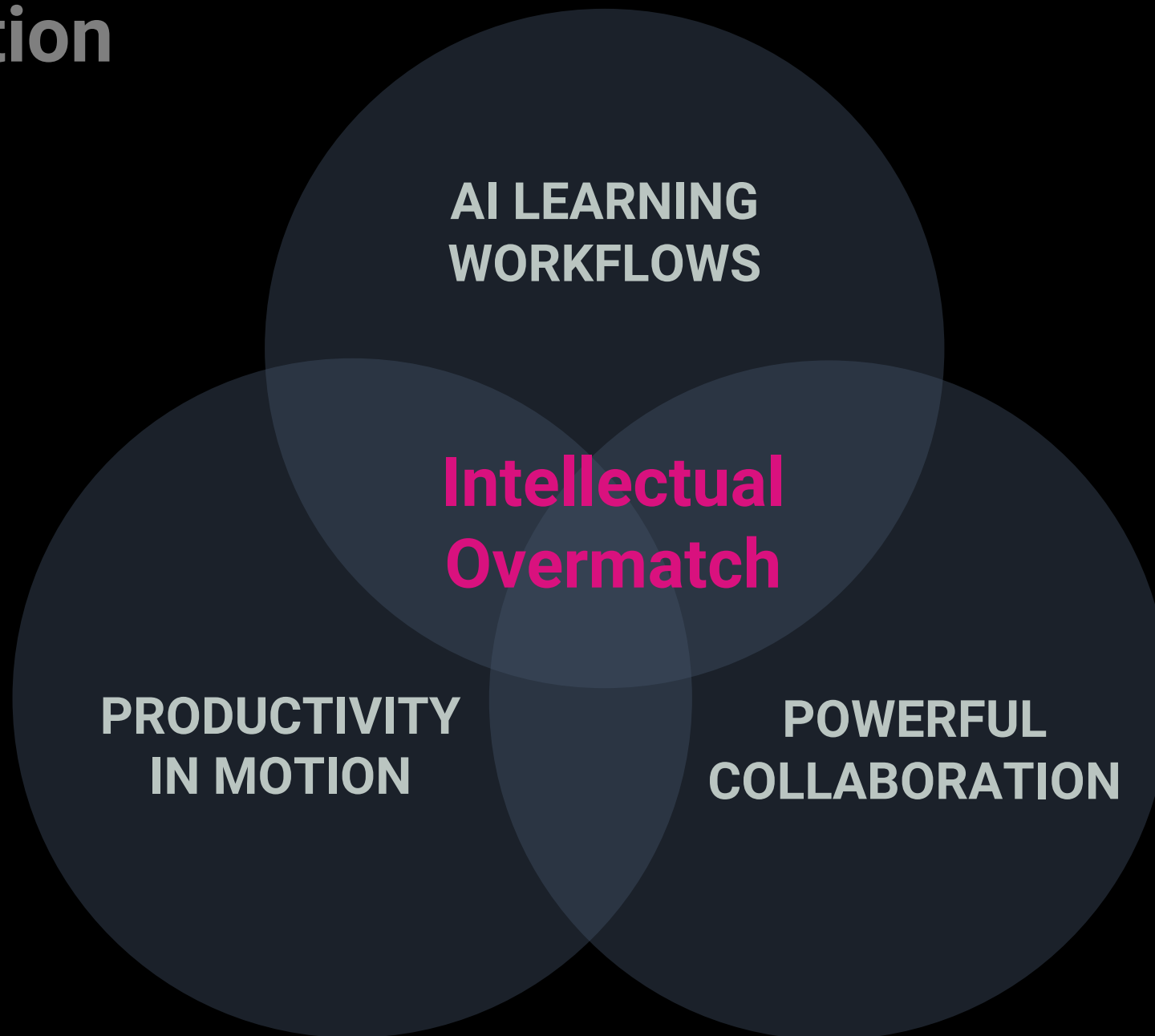
The ability of military leaders at all levels to out-think and out-innovate their adversaries.

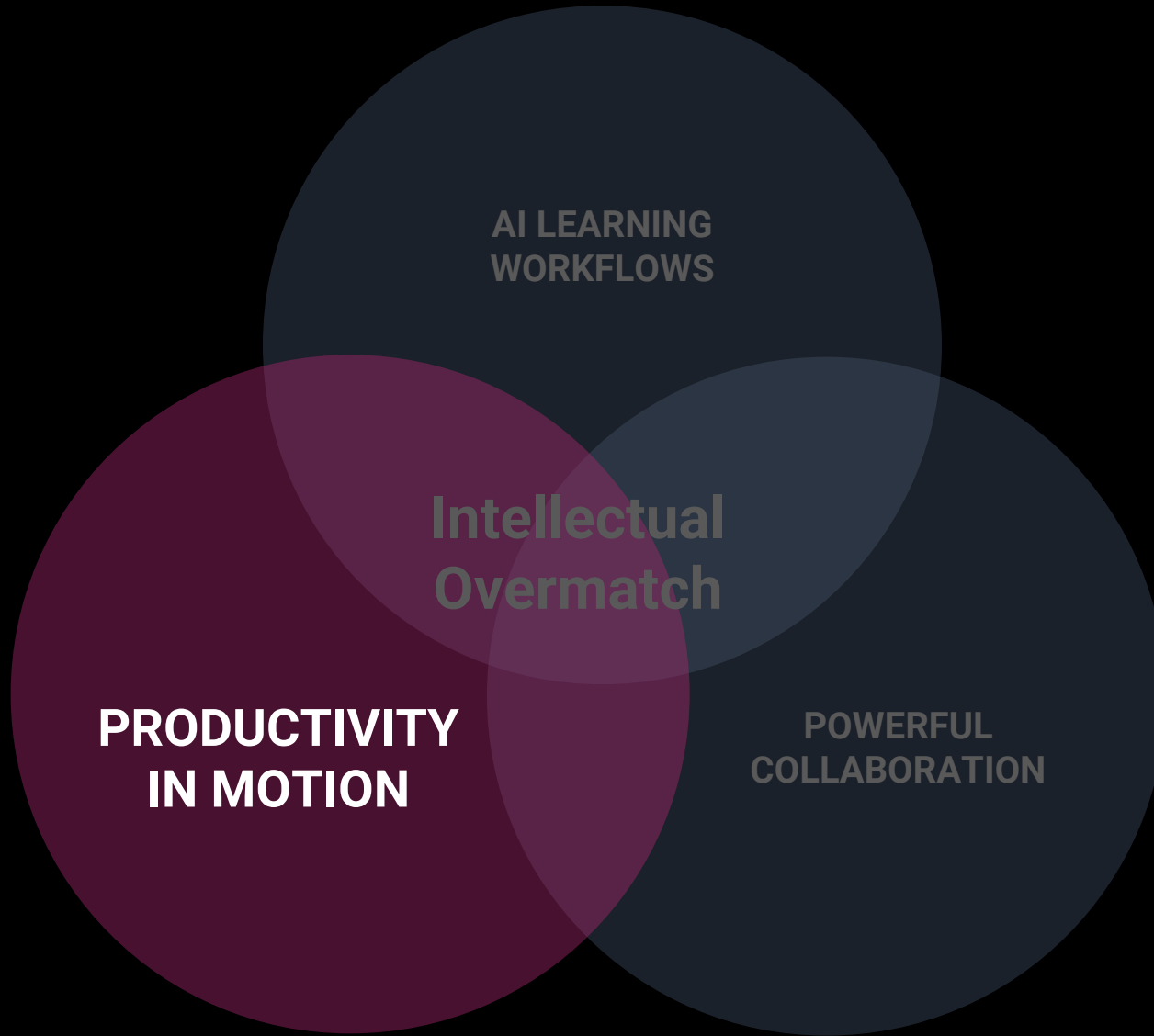
The Problem

**“Industrial Age
translations of
information”**

USSF *Vision for a Digital Service*

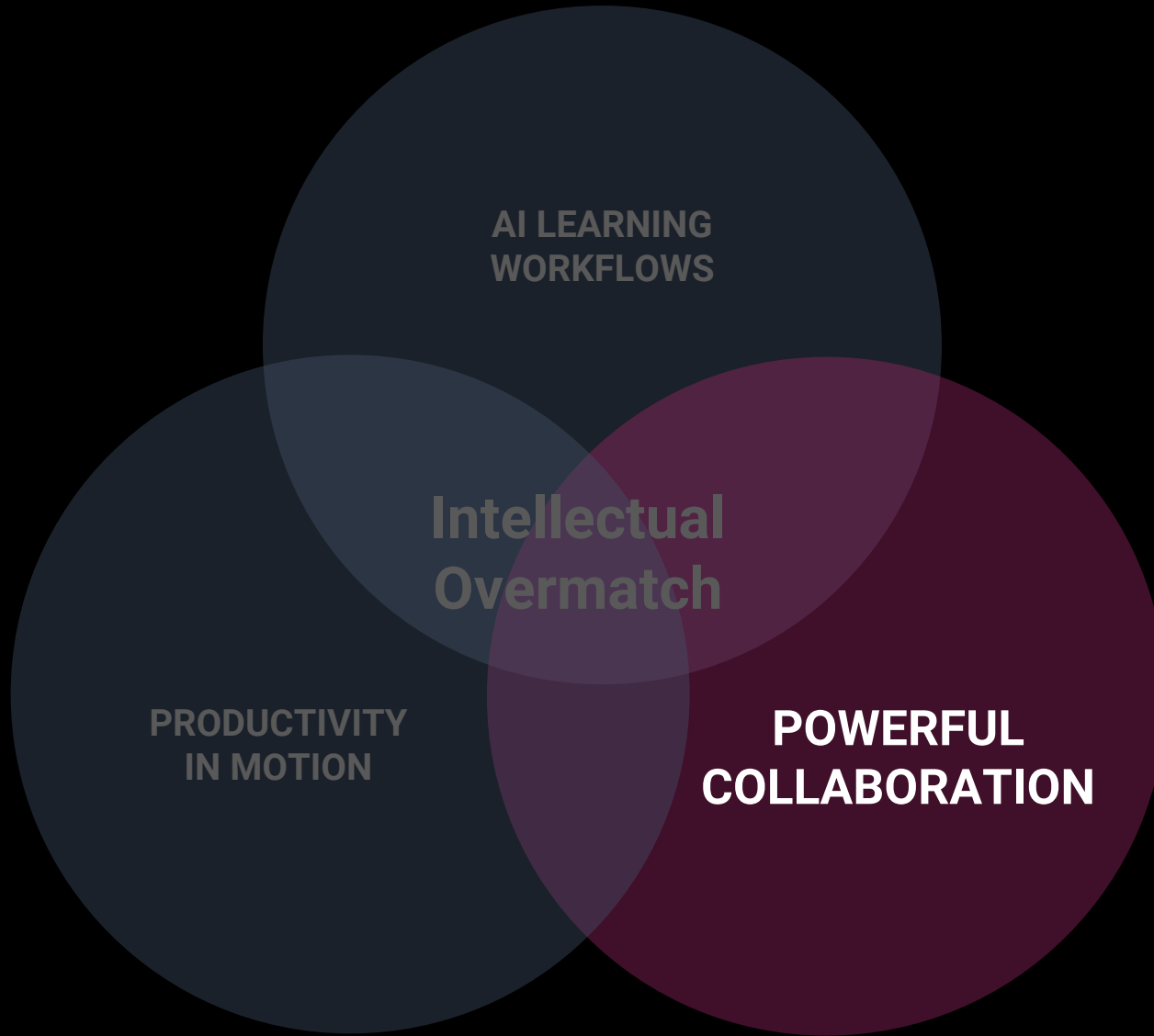
The Solution





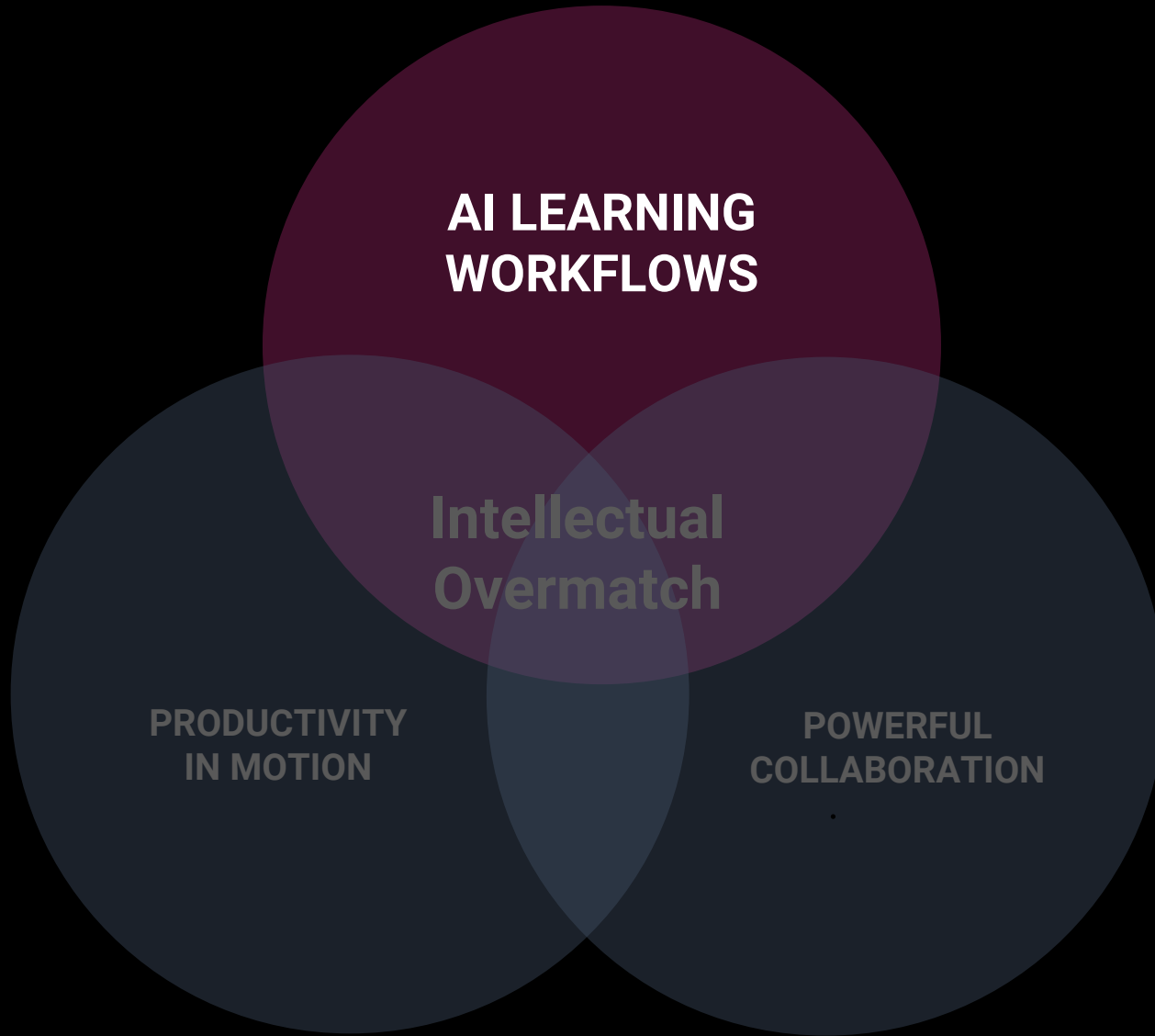
Cognitive Principles

- Spaced Learning
- Context-Varied Learning
- Interleaved Study
- Learning Styles Fallacy



Cognitive Principles

- Collaborative Cognition



Cognitive Principles

- Retrieval Practice
- Self-Explanation

AFROTC SBIR Overview



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