# Chapter IV

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# Air Force Research Laboratory Autonomy Science & Technology Strategy

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# AFRL Autonomy Vision & Goals

*Ensure operations in complex, contested environment*

*Demonstrate highly effective human-machine teaming*

**Intelligent machines seamlessly integrated with humans - maximizing mission performance in complex and contested environments**

*Create actively coordinated teams of multiple machines*

*Ensure safe and effective systems in unanticipated & dynamic environments*

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# AFRL Autonomy
# Complex & Contested Environments

***Ensure operations in complex, contested environment***

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**Intelligent machines seamlessly integrated with humans - maximizing mission performance in complex and contested environments**

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# AFRL Autonomy
# Complex & Contested Environments

*Ensure operations in complex, contested environment*

*Demonstrate highly effective human-machine teaming*

## ENDURING PROBLEMS

- **Develop technologies that assure robust system and self-protection capabilities**
- **Develop technologies that enable situational understanding of the environment**

*Creat*
*coord*
*multiple machines*

*Ensure safe and effective systems in unanticipated & dynamic environments*