

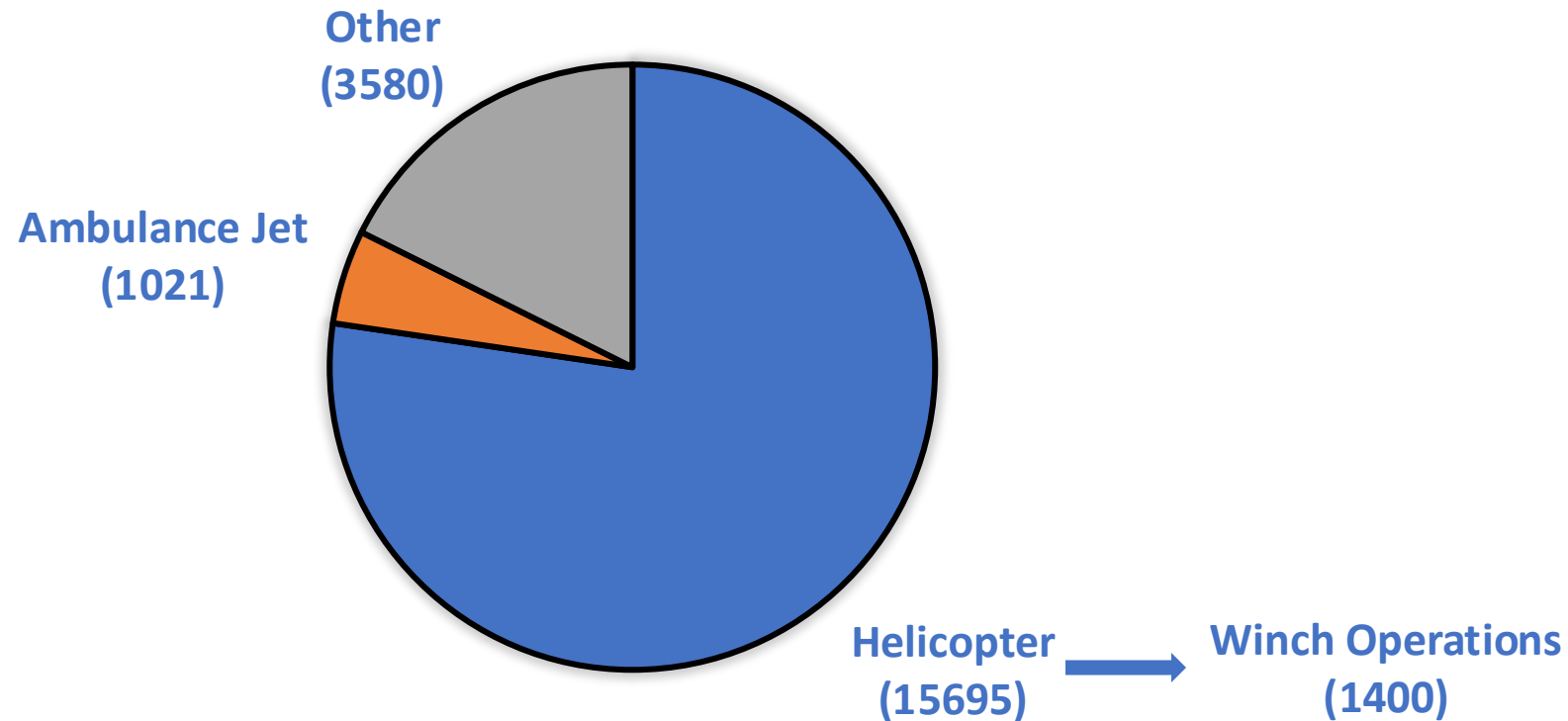
Project Description

Integrated Aerial Patient Transfer System for Helicopter Rescue Operations

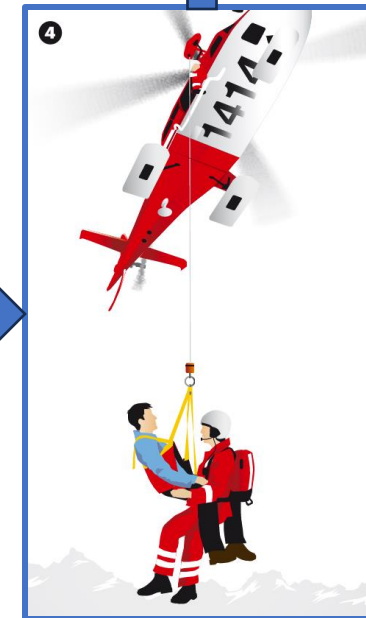
Applied Mechanical Design project 2024

Transport medical care to the casualty and help in emergency situations

DEPLOYMENT SUMMARY: 20000+



REGA Helicopter Winch Operation: How is it done?

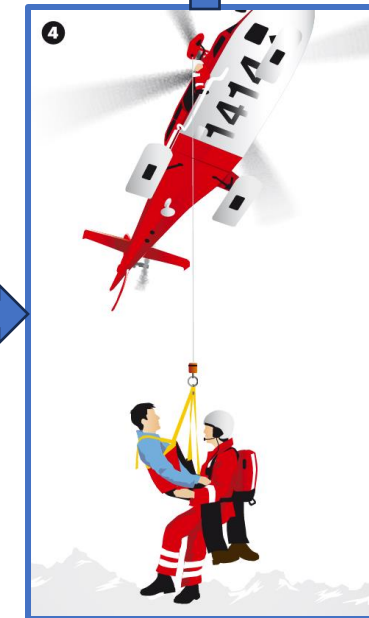


REGA Helicopter Winch Operation: Problem Statement



Problem Statement:

Inability to transfer patient into helicopter:
temporary landing required



Problem Statement

Inability to transfer patient into helicopter: temporary landing required

Consequences:

- Slower Emergency Response Times
- Increased Helicopter Wear & Tear
- Rising Operational Cost
- Higher Environmental Emissions

Project Objective:

Development of an integrated aerial patient transfer system for helicopter rescue operations

Project Objective:

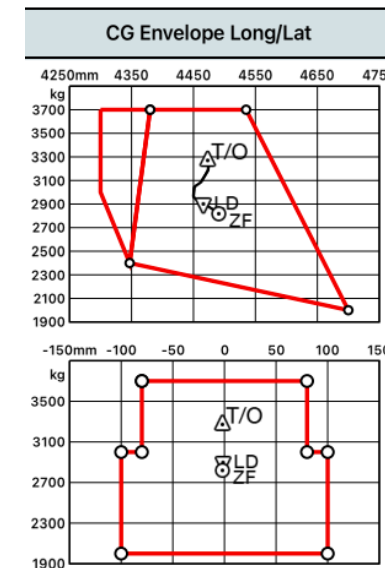
Development of an integrated aerial patient transfer system for helicopter rescue operations

Goals:

- Safely Transfer Patient into Helicopter while Airborne

Challenges:

- Adhering to Helicopter Layout Design
- Maintaining Operational Weight Distribution
- Upholding Patient Safety Standards



Thank you!