

ReConfigurable AMplifier (RCAM)

Terasys Technologies, LLC

Neil Kamikawa

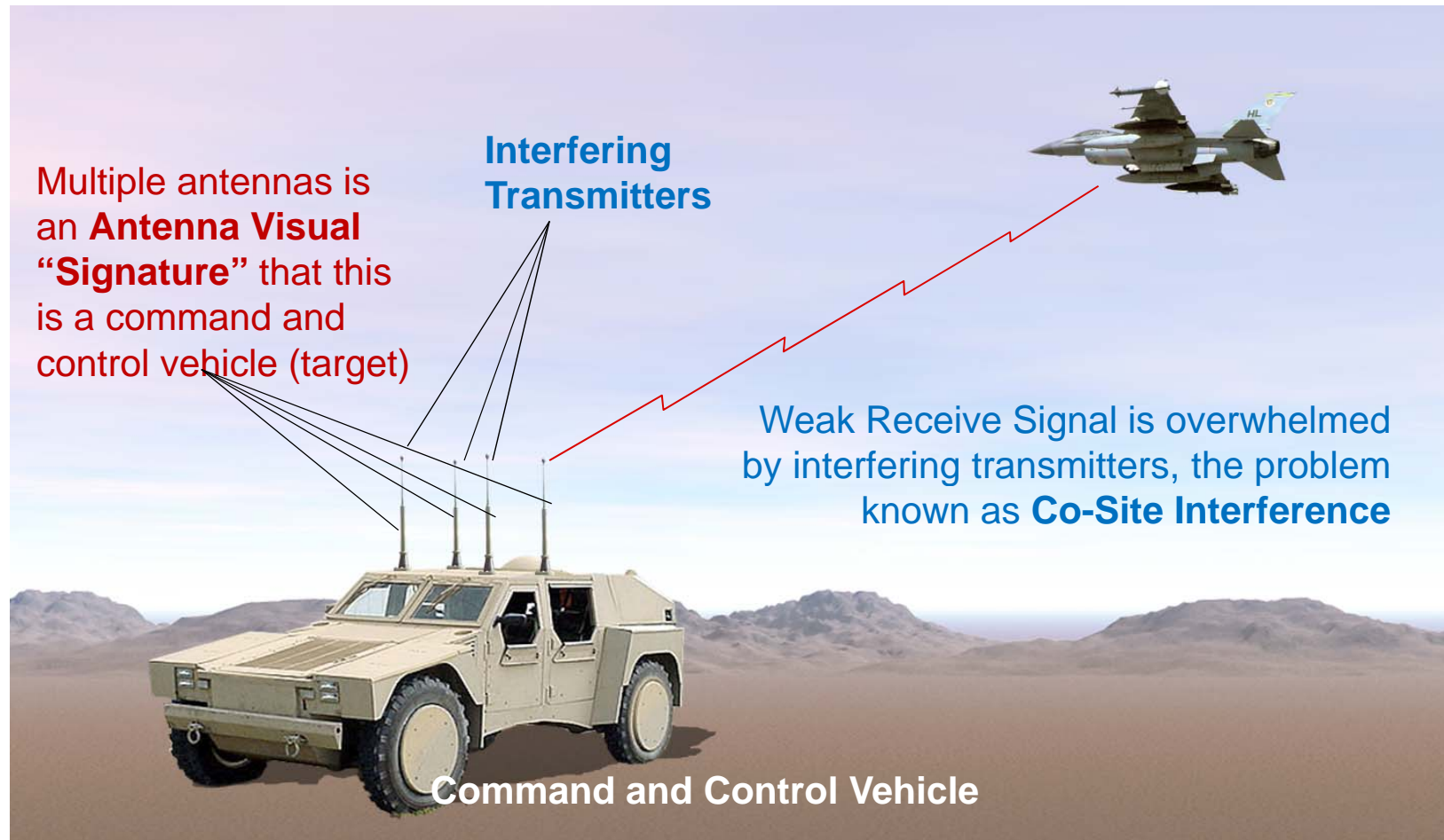
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Problem

- Multiple antennas co-located on a military vehicle create a visual signature of a high-value target.
- Multiple radios co-located on a vehicle produce co-site interference, which prevents the radios from simultaneous operation.

Visual Signature and Co-site Interference



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RCAM Solution

- Enables simultaneous transmission of multiple radios from a single antenna by using a high efficiency, high linearity amplifier
 - The visual signature of a high-value target is eliminated by use of a single antenna
 - Co-site interference is reduced allowing simultaneous transmission by using a high efficiency and high linearity amplifier

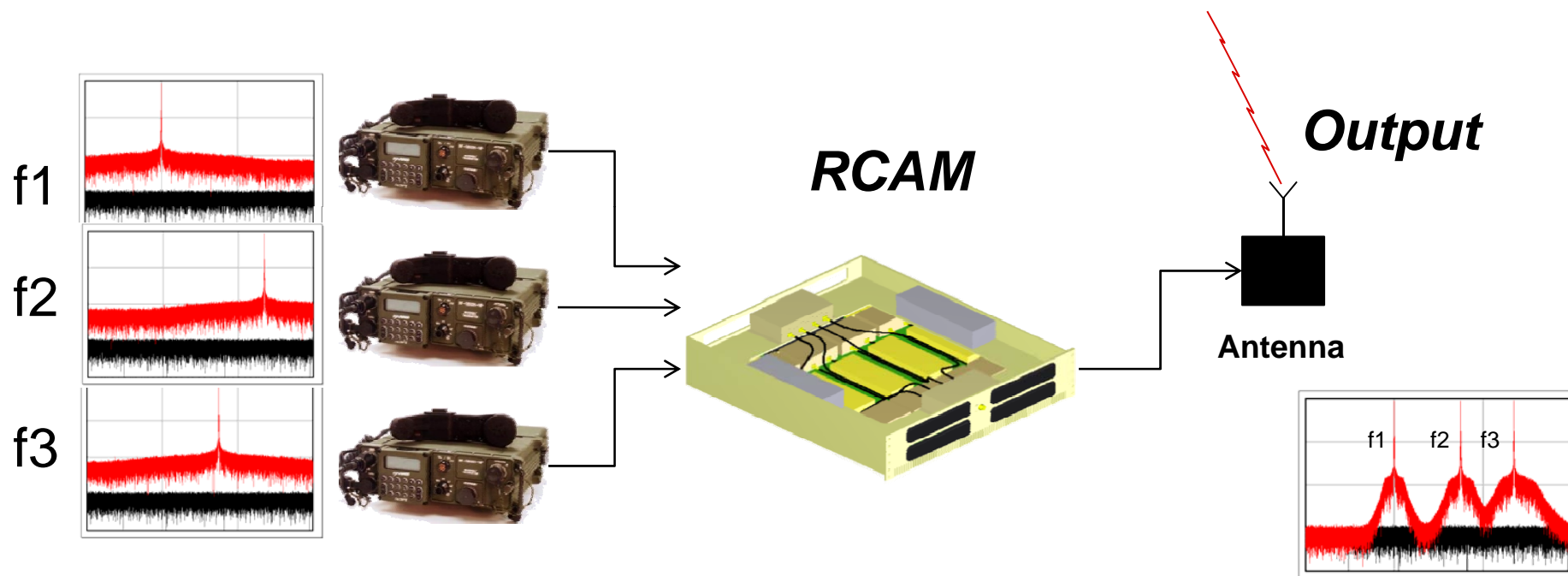
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RCAM Solution



RCAM recombines cleanly amplified signals from multiple platform radios into a single antenna without intermodulation products

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Terasys Team

- Terasys Team Members
 - Kevin Miyashiro, President
 - Ky-Hien Do, Chief Scientist
 - Karen Miyashiro, Exec Assistant
 - Jason Horiuchi, Principal Engineer
 - Dr. Chris Nichols, Program Manager
 - Lyn Lamoreaux, Office Mgr/Project Assistant
 - Neil Kamikawa, Senior Engineer

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Terasys Team

- More than 57 years of cumulative RF and microwave engineering experience

Status

- Progress to date
 - Analyzed RCAM operation in coherent mode
 - Analyzed Negative Impedance Converter
- Future milestones
 - Analyze and design osci-amplifier device
 - Identify and select foundry service to fabricate device
 - Anticipate funding from ONR Code 31 to execute contract with foundry to build device

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Terasys Technologies Profile

- Company name: Terasys Technologies LLC
- Date Founded: September 2007
- No of employees: Seven
- DBAs: NA
- Business areas: Military and commercial wireless communication
- Latest or most relevant Product:
 - Radio-Frequency Absorptive Filter (RAF)
- Company logo:



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