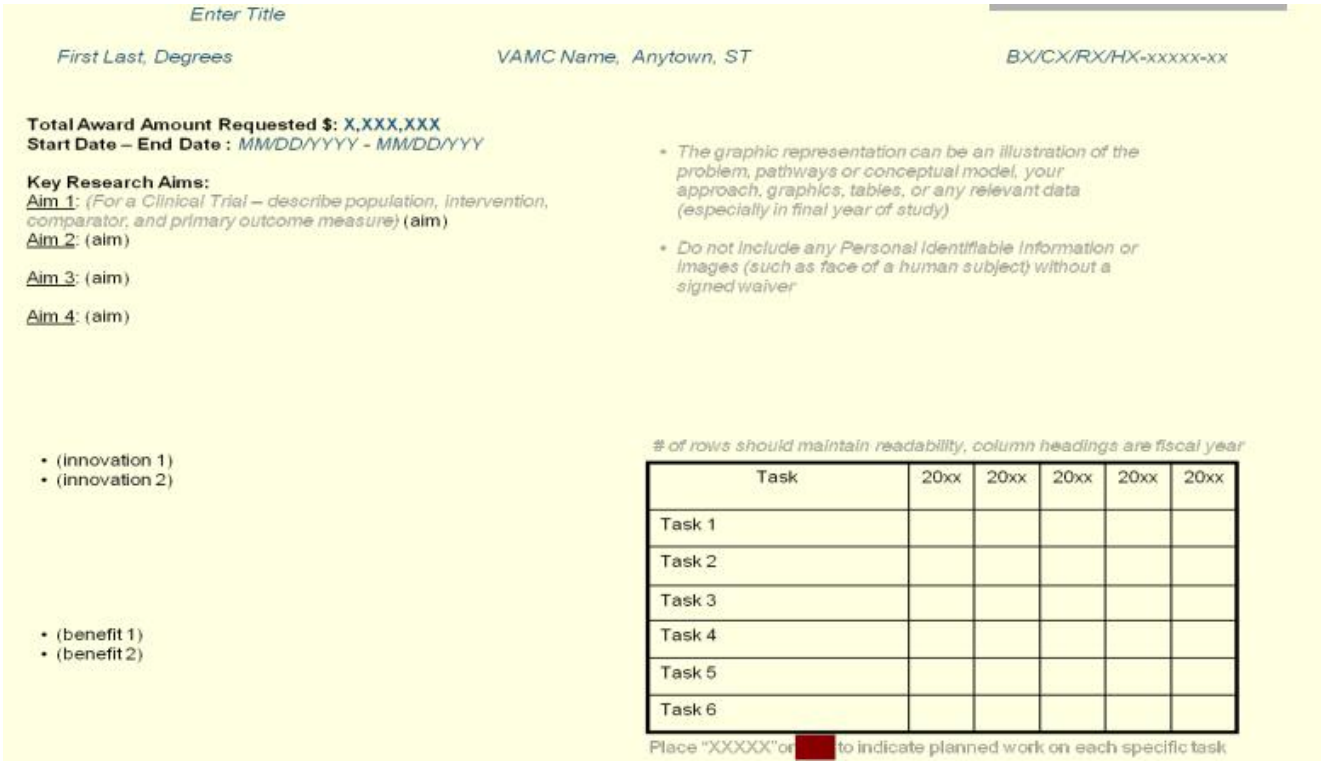
What is a Quad Chart?

- A visual abstract of the project, submitted as part of the proposal or as a pre-proposal
- Literally, a single Power Point divided into four sections, with specific content in each, usually concept, goals, research cost and schedule, along with a photo or illustration
- Funding agency usually provides a template or specific instructions about quad content
- Some institutions are using quad charts to showcase faculty research to funding agencies

Quad Charts: VA Template



Enter Title

First Last, Degrees — *VAMC Name, Anytown, ST* — *BX/CX/RX/HX-xxxxx-xx*

Total Award Amount Requested $: X,XXX,XXX
Start Date – End Date : *MM/DD/YYYY - MM/DD/YYY*

Key Research Aims:
Aim 1: *(For a Clinical Trial – describe population, intervention, comparator, and primary outcome measure)* (aim)
Aim 2: (aim)

Aim 3: (aim)

Aim 4: (aim)

- *The graphic representation can be an illustration of the problem, pathways or conceptual model, your approach, graphics, tables, or any relevant data (especially in final year of study)*
- *Do not include any Personal Identifiable Information or Images (such as face of a human subject) without a signed waiver*

- (innovation 1)
- (innovation 2)

- (benefit 1)
- (benefit 2)

# of rows should maintain readability, column headings are fiscal year

Task	20xx	20xx	20xx	20xx	20xx
Task 1					
Task 2					
Task 3					
Task 4					
Task 5					
Task 6					

Place "XXXXX" or to indicate planned work on each specific task

Quad Charts: SBIR Template

Project/technology title

Overall Risk:	HIGH	X	MEDIUM		LOW	SBIR/STTR Topic Number:	Date: mm/dd/yy

CONCEPT	REQUIREMENT
Concept Picture	**REQUIREMENT/PAYOFF:** Identify and describe the need driving technology development as well as its benefit to the target Agency
	DELIVERABLE: Description of product to be developed for use and how it meets customer requirement
OBJECTIVE: Short statement explaining the technology and its principal features	**TRANSITION(S):** Succinct strategy/plan for this project that addresses how the technology will transition into a system or platform

CONTACTS			
Company:	name	website	email
Company lead:	"	phone	"
Technologist:	"	"	"
Fiscal POC:	"	"	"

Quad Charts: DOD Template

Project Name

Photo/Graphic

Insert brief War Fighter Tag Line such as
"Full Situational Awareness for Urban Combat"

Technology

-Be brief, use plain English (non-technical)
-Answer "Why this program/technology is better than what we have or better than the competition"
-List specific benefits/outcomes
-List if/where this item is being used today

Schedule

-Include milestones and funding
-Include Technology Readiness Level (TRL)
-Include sponsors (USSOCOM, DARPA, DTRA, etc…)
-Company name & location

POC: Name, ph #, email

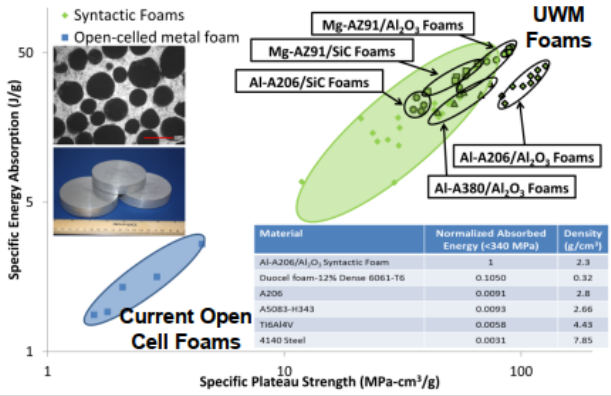
Funding ($M)

	FY10	FY11	TOTAL
Program	X.XXX	X.XXX	XX.XXX

-Include sustainment as well as procurement
-Describe manning requirements (military and/or civilian)

Example of Completed Quad Chart for a DOD Grant

Implementation of Lightweight Metallic Syntactic Foams and Hybrid Structures for Improved Performance and Survivability of U.S. Navy and Marine Corp Vehicles, UW-Milwaukee/Eck Industries/General Dynamics



Material	Normalized Absorbed Energy (<340 MPa)	Density (g/cm³)
Al-A206/Al2O3 Syntactic Foam	1	2.3
Duocel foam-12% Dense 6061-T6	0.1050	0.32
A206	0.0091	2.8
A5083-H343	0.0093	2.66
Ti6Al4V	0.0058	4.43
4140 Steel	0.0031	7.85

Technology Description:

- New Lightweight Metal Matrix Syntactic Foams and New Low Cost Method of Manufacture have been developed and will be implemented in vehicle components
- Technology Readiness Level (TRL) is currently 6 and will be TRL 9 at the end of Rapid Innovation Fund development

The "So What":

- The proposed project addresses Thrust Area 2: Developing, Utilizing & Maintaining Advanced Materials.
- Lightweight, advanced syntactic foams (as shown in the picture at left) will be used with hybrid composites in vehicle floor plates and applique armor
- Reduced weight and volume enhance vehicle performance and survivability
- Low cost manufacturing methods reduces initial cost.
- NAVSEA / Development and Acquisition Cost

Project Objective and Scope:

- Design, Fabrication, Testing and Implementation of Novel Lightweight Blast/Ballistic Resistant Floor Protection Plates and Applique Armor

Key Deliverables:

- 24x24x2inch plates
- Technical Report including results of testing and characterization, qualification, introduction in Navy Vehicles

Key Subcontractors:

- General Dynamics, Eck Industries

Registered with System for Award Management (SAM)?: NO

Related SBIR or Other Government Contract: NONE

Proposed Funding: $3,000,000

Notional Project Schedule Milestones:

Activity	Year 1	Year 2	Year 3
Design Of Material and Component	■		
Prototype Fabrication & Testing		■	
Component Design Optimization, Testing, and Final Delivery			■