# The Right Navy for the Right Reasons at the Right Cost

**Professor Laurence McCabe** 

**U.S. Naval War College** 

Cartagena, Colombia

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#### 21ST CENTURY NAVAL POWER

- Global Maritime Security
- > A Grand Strategy
- > Naval Roles, Missions & Concepts
- > Regional Maritime Trends
- Naval Programs and the Future of Naval Construction

### TODAY'S JOURNEY



- Maritime Border & Sovereignty Disputes
- Economic Exclusion Zone Violations
- Maritime Criminal Networks
- Freedom of Navigation Restrictions
- Environmental Protection Policies
- Climate Change
- Great Power Posture & Presence
- Great Power Conflict



#### GLOBAL MARITIME CONFLICT TRENDS

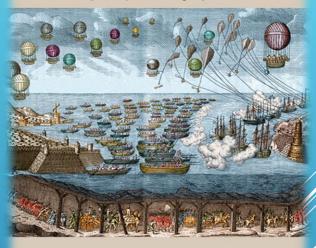


# GLOBAL MARITIME TENSION: STRATEGY, CONCEPTS AND CAPABILITIES MATTER

- Torrington Fleet in Being, Guerre de Course, The Blockade, Rise of Mercantilism naval power
- Alfred T. Mahan: Command of the Sea and overseas presence was important to Great Powers. Protection of Seaborne Commerce was secondary to domination in war. Great powers required great navies.
- ▶ **Julian Corbett**: Navies were important to land warfare securing lines of communication was more important the destroying the enemy's fleet.
- Today: Great navies provide presence and power projection to maintain freedom of movement on the high seas in support of a global economy. Regional power projection and control of territorial waters and EEZs is growing in importance
- Distributed Lethality: Every ship is shooter

### The Evolution of Strategy

Thinking War from Antiquity to the Present



BEATRICE HEUSER

CAMBRIDGE

### THE EVOLUTION OF NAVAL STRATEGY

- Global, Regional or National Interest Priorities?
- ▶ Future Threat Assessment?
- Global Engagement Model: Multi-lateral, Unilateral or Selective Engagement?
- Presence or Power Projection?
- ▶ Green or Blue Economy?
- Resource Limitations

#### YOUR GRAND STRATEGY

WHAT IS THE ROLE OF YOUR NAVY?



- Major Global Force Projection
- Medium Global Force Projection
- Medium Regional Force Projection Navies
- Adjacent Force Projection Navies
- Offshore Territorial Defense Navies
- Inshore Territorial Defense Navies
- Constabulary Forces
- ▶ Token Navies





## A TYPOLOGY FOR NAVIES ERIC GROVE

- Strategy: What are the country's national interests?
- Strategic Objective: What must the Navy do to support the national interests?
- Strategic Concept: How will the Navy operate to achieve success?
- Capabilities: What does the navy need to be successful? How much does the Navy need?

THE GOLDEN THREAD TO SUCCESS



- Rapidly Evolving Domestic Tension
- Clear National Divergence of Maritime Roles & Missions
- Maritime Domain Awareness, Sea Denial to Power Projection
- Integration With National Strategies
- Limited, But Increasing Regional Cooperation
- Contentious Roles, Missions Capability Debate
- Appreciation for Blue Economy
- Personnel Retention With Strengthening Economies
- Resource Limited

### CONTEMPORARY CHARACTERISTICS OF LATIN AMERICA MARITIME POWER



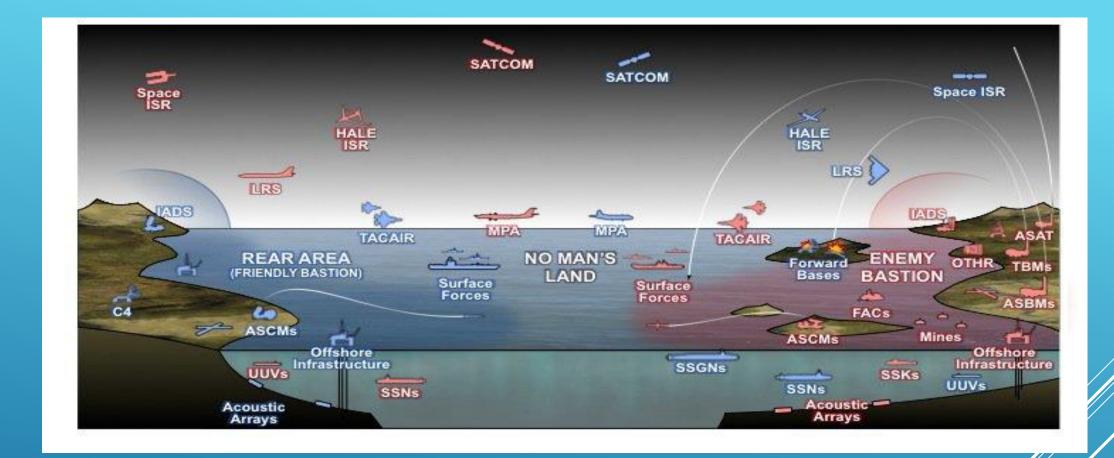




- Multi-Mission
- Plug & Play
- Networked
- Survivability
- ► Increasing Electric Power Requirements
- > Smaller Crews Robotics
- Capability Over Capacity
- ▶ Cyber-Secure
- ▶ 3-D Printing
- ► Efficiency With Green/Bio Fuels

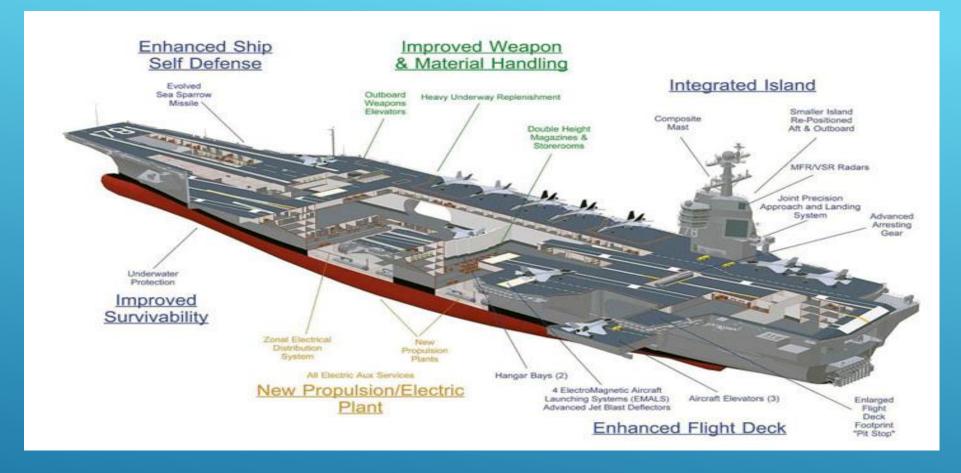


## FUTURE NAVAL CONSTRUCTION TRENDS



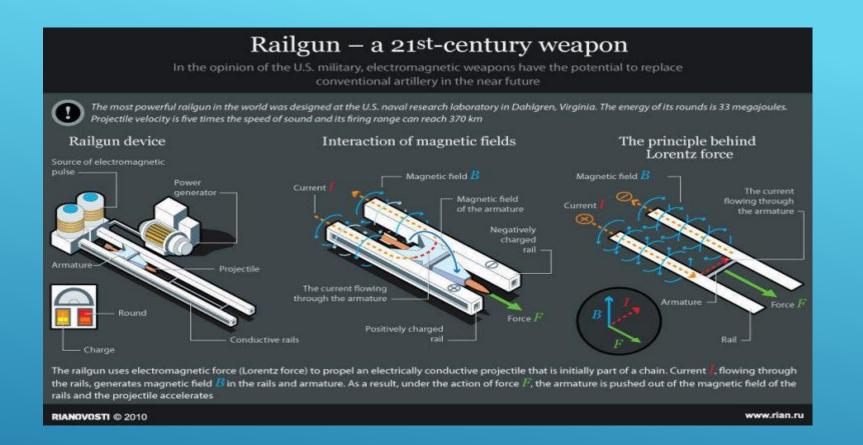
#### CSBA'S NO MAN'S SEA

SYDNEY FREEDBERG, BREAKING DEFENSE

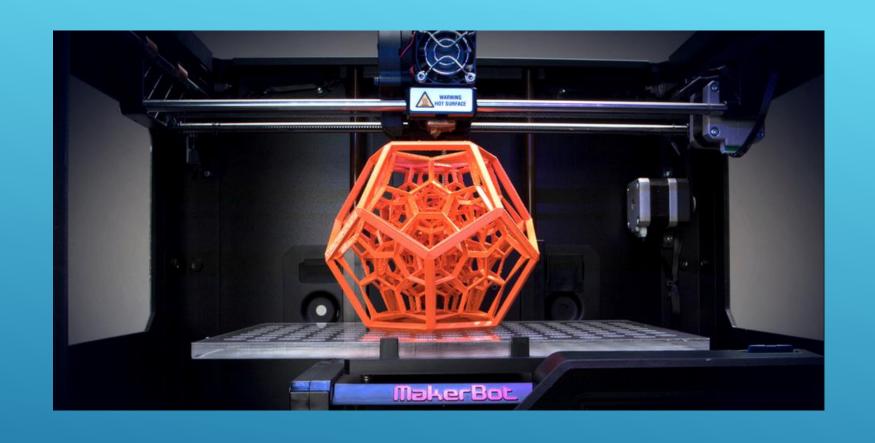


- Survivability
- Large Power Requirements
- Electric
  Modifications to
  Propulsion, Air Craft
  Launching
- Networked
- Cyber SecurityEmphasis

### CV GERALD FORD ENGINEERING IMPROVEMENTS



## THE FUTURE IS ELECTRIC POWER & NETWORKED SYSTEMS



THE 3D PRINTER - EVERY SHIP NEEDS ONE

Successful Shipyards will integrate national interests, strategic planning, global maritime assessments and resource limitations into long-range construction plans. Balancing growth, profit and nationalism is not easy – but the best shipyards find a way.

# BALANCING PROFIT AND PATRIOTISM

(THIS CAN BE DIFFICULT)