



### **DEPPS Models and Components**

The Defense Employment and Purchases Projections System (DEPPS) has three major components:

- RDEPPS: A state-level (regional) model that determines the effect of defense expenditures by major procurement category on each state, at an aggregate level of 110 industries (a smaller set of industries than in the more detailed IDEPPS national model).
- IDEPPS: A detailed interindustry model that forecasts defense industry demands by 360 industries, broken out by major appropriation and procurement categories for the top ten industries.
- LDEPPS: A skilled labor model that summarizes the requirements for various occupational classifications of employment in each industry. The occupational matrix used in LDEPPS features 101 occupational categories.

Several Inforum models feed DEPPS:

- LIFT, which stands for Long-term Interindustry Forecasting Tool, is a 97-sector input-output model embedded in a macroeconomic model. LIFT establishes the macroeconomic environment as well as industry controls.
- ILIAD, or the Interindustry Long-run Integrated and Dynamic model, uses the macroeconomic forecasts and the industry controls from LIFT to further divide the economy into 360 industries.
- STEMS is the Inforum State Employment Modeling System.

# Potential Uses of DEPPS as an Analytical Tool for Policy Makers

### RDEPPS

- RDEPPS determines the geographic distribution of the effects of planned defense expenditures.
- Provides projections for 110 industries in inflation-adjusted dollars
- Provides economic detail for for 50 states and DC
- Accounts for direct spending, indirect spending from purchases, and indirect spending from pay
- Does not include foreign impacts, such as imports or pay or other expenditures abroad.



## **IDEPPS**

- IDEPPS determine defense-related production to supply goods and services implied by the FYDP.
- Provides projections for 360 industries in inflation-adjusted dollars
- Reflect planned outlays, for military programs only
- Accounts for direct spending, indirect spending, and imports
- Integration with LIFT and Iliad models allow analysis of defense spending in the context of the overall economy.





- Economic impact multiplier analysis
- Impacts of base closures on state economies U.S. and Selected Areas

- DoD energy consumption

### **DEPPS** Applications

• Multipliers are calculated as the ratio by which one economic variable increases in response to another economic variable • Several alternative spending scenarios. Example: Jobs impact of additional aircraft procurement spending

• RDEPPS is used with data from the Atlas/Data Abstract for the

 Projecting cost deflators for major spending categories • National Defense Budget Estimates (the Green Book) projects cost deflators for major categories of spending • Cost projections are used for four "commodities": Military pay, Civilian pay, Fuel, and Other

• Analysis of import dependence and bottlenecks

• Projections of defense energy requirements

• Energy costs are increasing substantially relative to other goods and services, resulting in Congressional mandates to reduce

• DEPPS is used with the Inforum LIFT model to evaluate effects of Congressional mandates on energy consumption