



Sustainability and Major Construction Program at Fort Benning, Georgia

Peter Lukken

Fort Benning

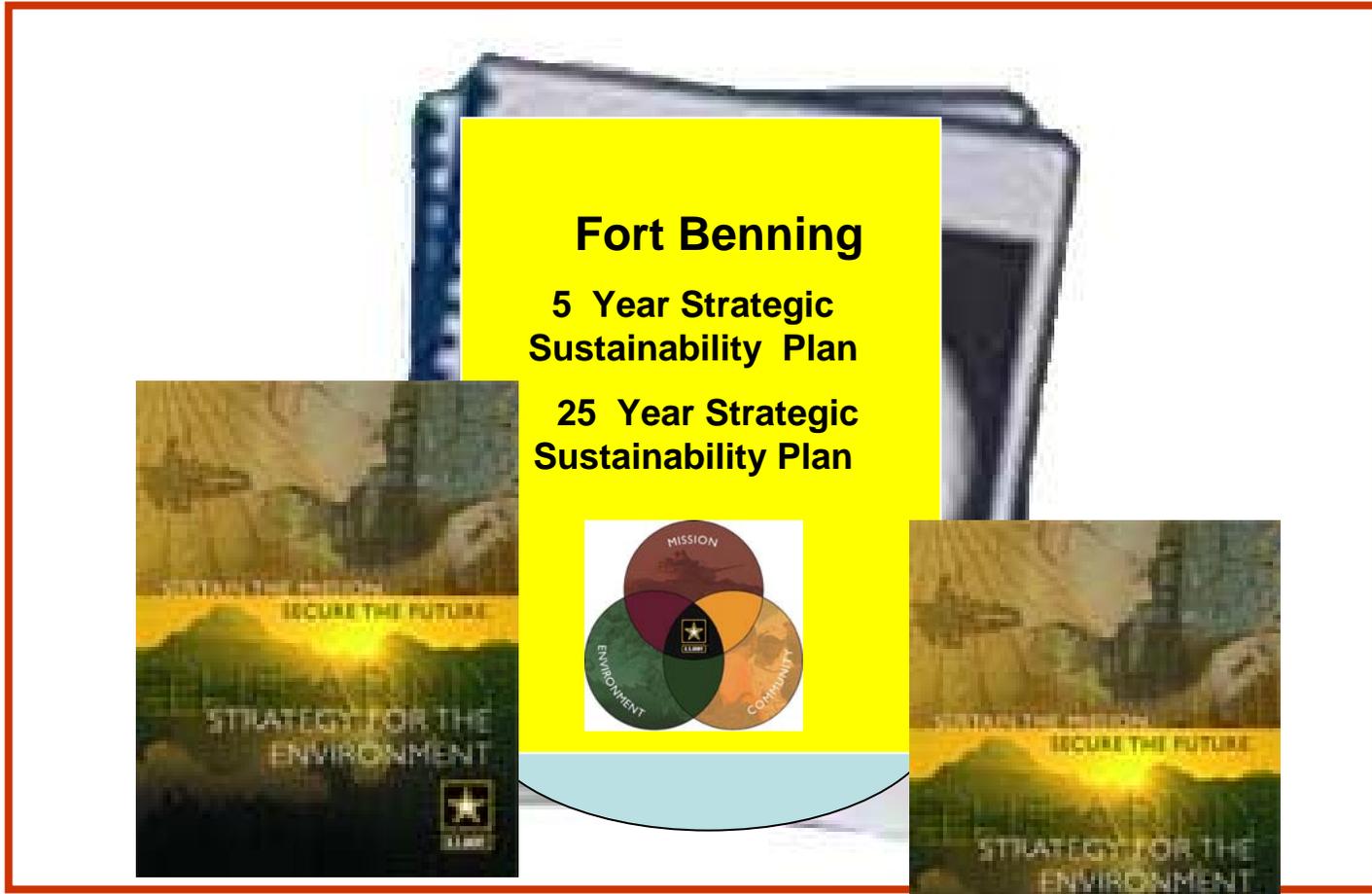
the New MCOE

- *Sustainability in our Planning*
- *Sustainability in our Partnering*
- *Sustainability in our Education*
- *Sustainability in our Designing*
- *Sustainability in our Building*
- *Sustainability in our Engineering*
- *Sustainability in our Purchasing*





Sustainability in our Planning



•5 year Strategic Sustainability Plan

ISO 14001 and EMS Planning

•25 year Strategic Sustainability Plan

ACUB Army Compatible Use Buffers

•JLUS Joint Land Use Study

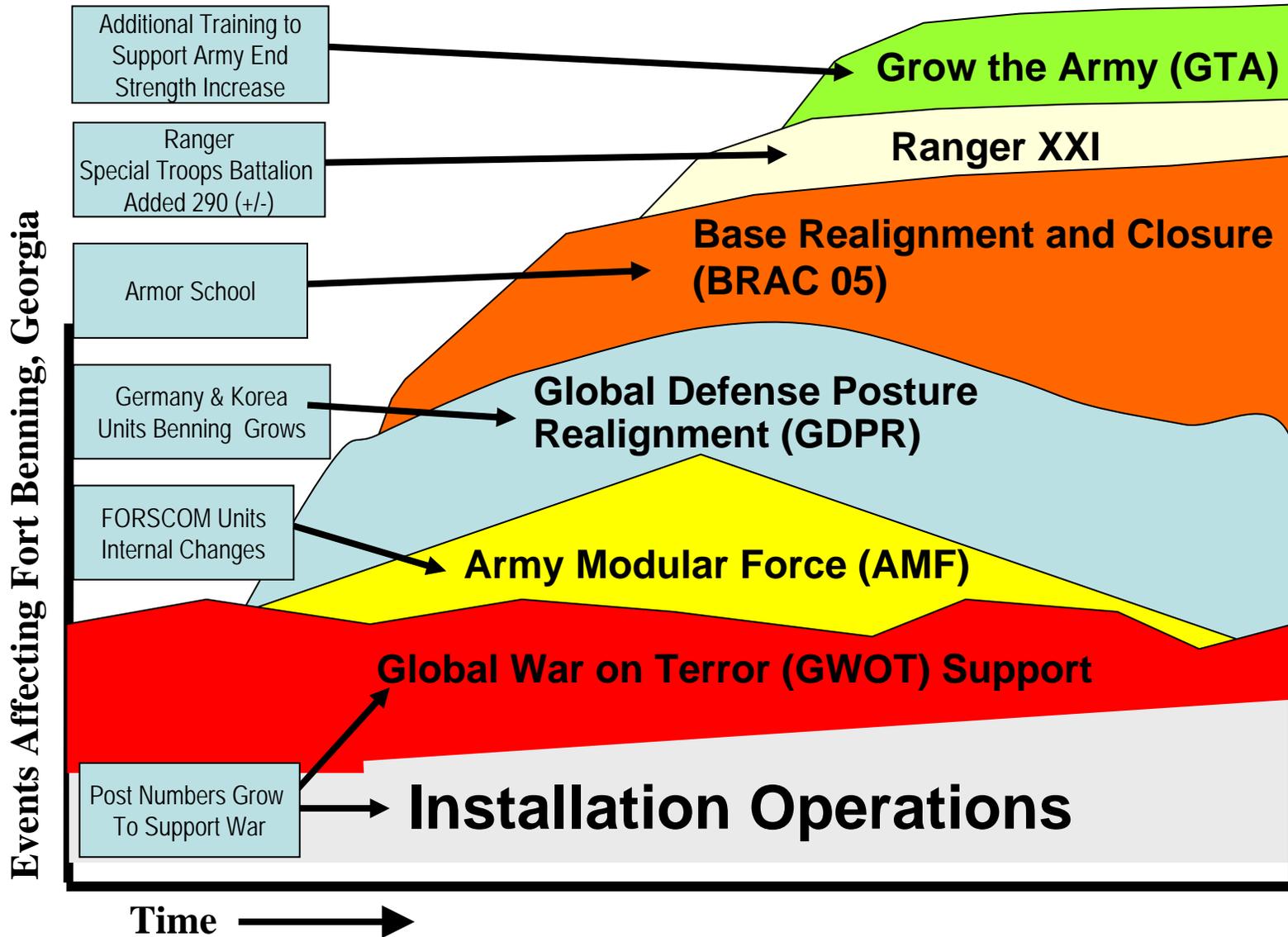
Integrated Training Area Management (ITAM) Program

•RTLP Range and Training Land Program

EEAP Energy Engineering Analysis Program (EEAP)

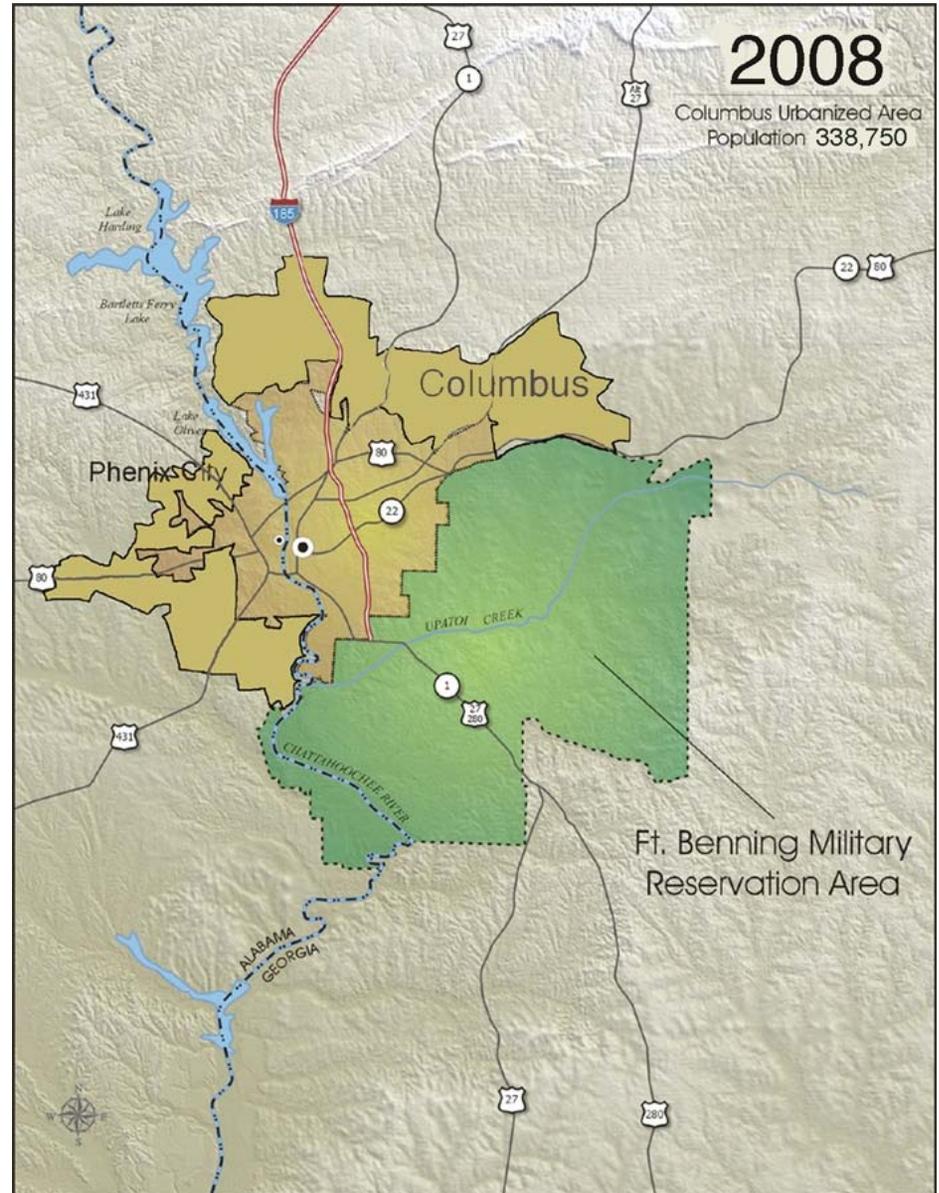
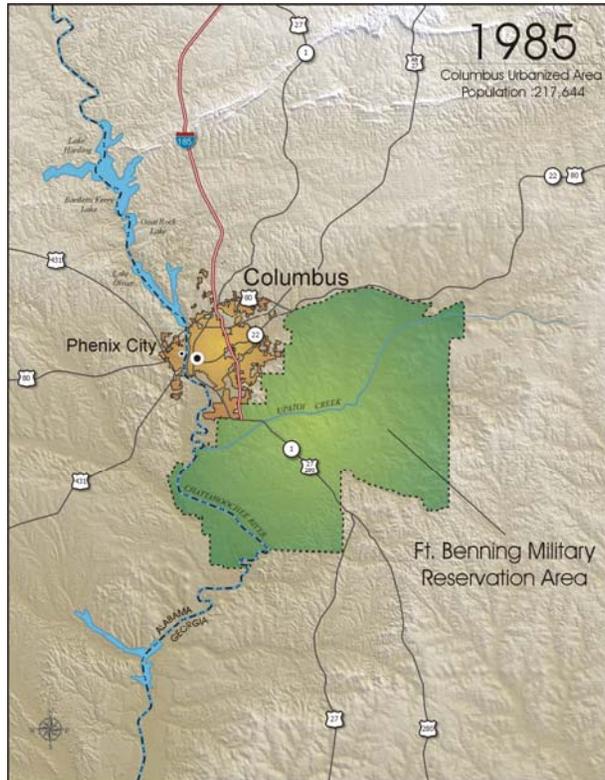


Sustainability in our Planning





Sustainability in our Partnering





Sustainability in our Partnering



● Kansas City



Sustainability in our Partnering



- Georgia Clean Air Campaign
- Army Mass Transportation Program
- Joint Land Use Study
- Army Compatible Use Buffers
- Environmental Assessment Studies
- Regional LEED Group
- Endangered and Protected Species Program
- Land Management and Forestry Program
- Energy Engineering Analysis Program (EEAP)
- Fort Benning Energy Management and Control System Integration Project
- Pacific Northwest National Laboratory (PNNL)
- State Pollution Prevention (P2) Program





Sustainability in our Education



- Leadership in Energy and Environmental Design
- Understanding “Green” Directives and Mandates
- GSA Green Procurement



- Look out for “Green Washing” -
- “First-Second-Third” Reducing, Reusing and Recycling
- “Holistic approach to your Boot Print”



Sustainability in our Education



Wind energy credits offset the Zody assembly CO₂ emissions—avoiding emissions of over 1.4 million pounds in the next two years, which is equivalent to planting 194 acres of mature trees, shaving 1.5 million miles off the average car or taking 124 cars off the road permanently.

SUSTAINABLE Showcase

Fort Benning has established, for testing and evaluation purposes, a Energy and Environmental Design product showcase. As a sustainable partner in the community, Fort Benning is committed to leading the way in innovated environmental and conservation technology. Beginning in FY08 all building construction on Fort Benning will meet or exceed the LEED *Silver* standard certified by the US Green Building Council.

Fort Benning's Showcase is located on the ground floor of the new Maneuver Center of Excellence Headquarters- building 4



*Maneuver Center of Excellence Bldg
Fort Benning, Georgia*





Sustainability in our Designing



New Construction Site
Sand Hill

McGraw Village

Patton Village

Interstate 185 Expansion

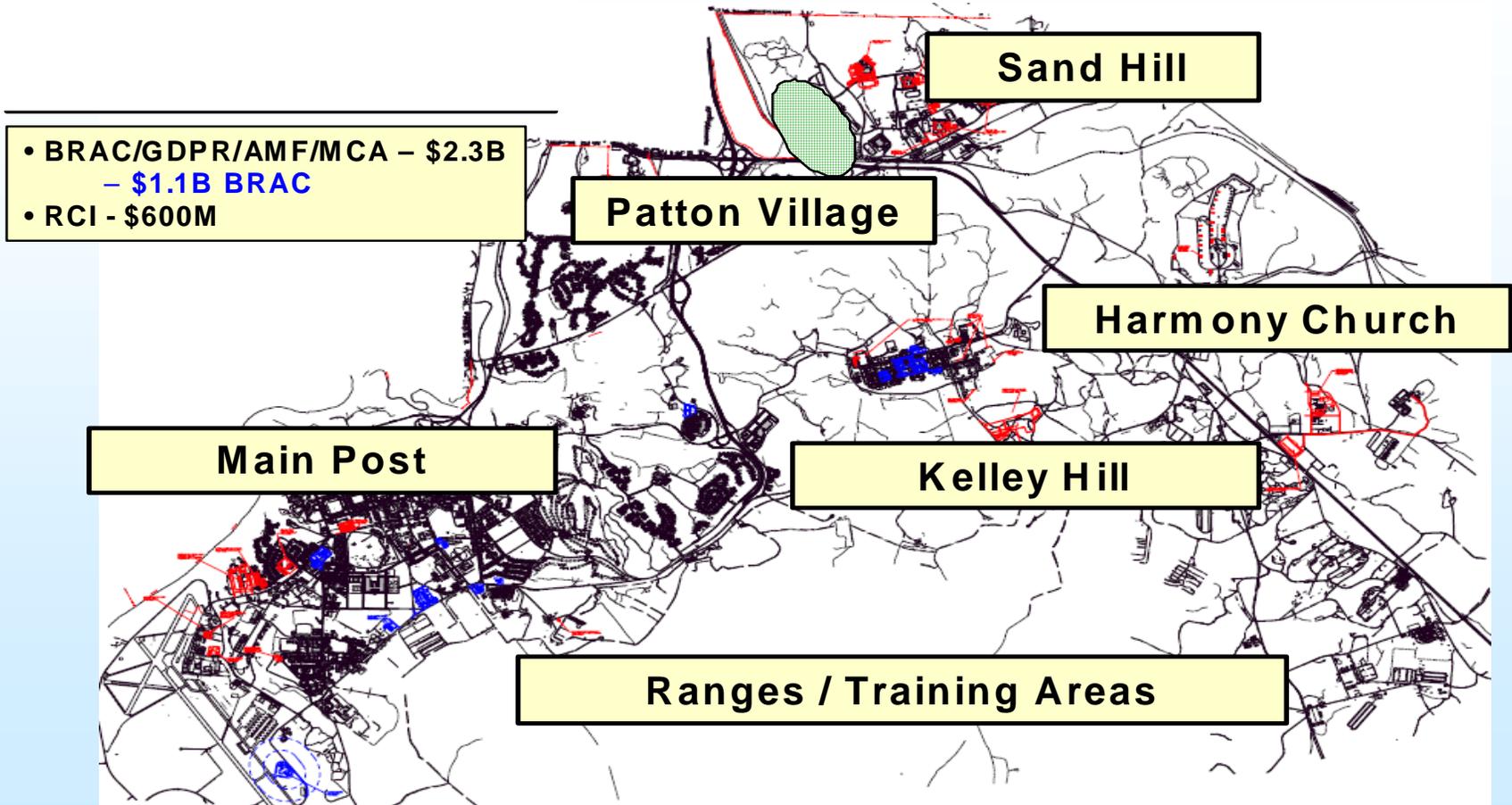
- Widening to six lanes from St. Mary's Road (\$27.1M)
- Improvements to Victory Drive interchange (\$21.3M)
- Jun 2009 projected completion

I-185 Main Entrance to Fort Benning





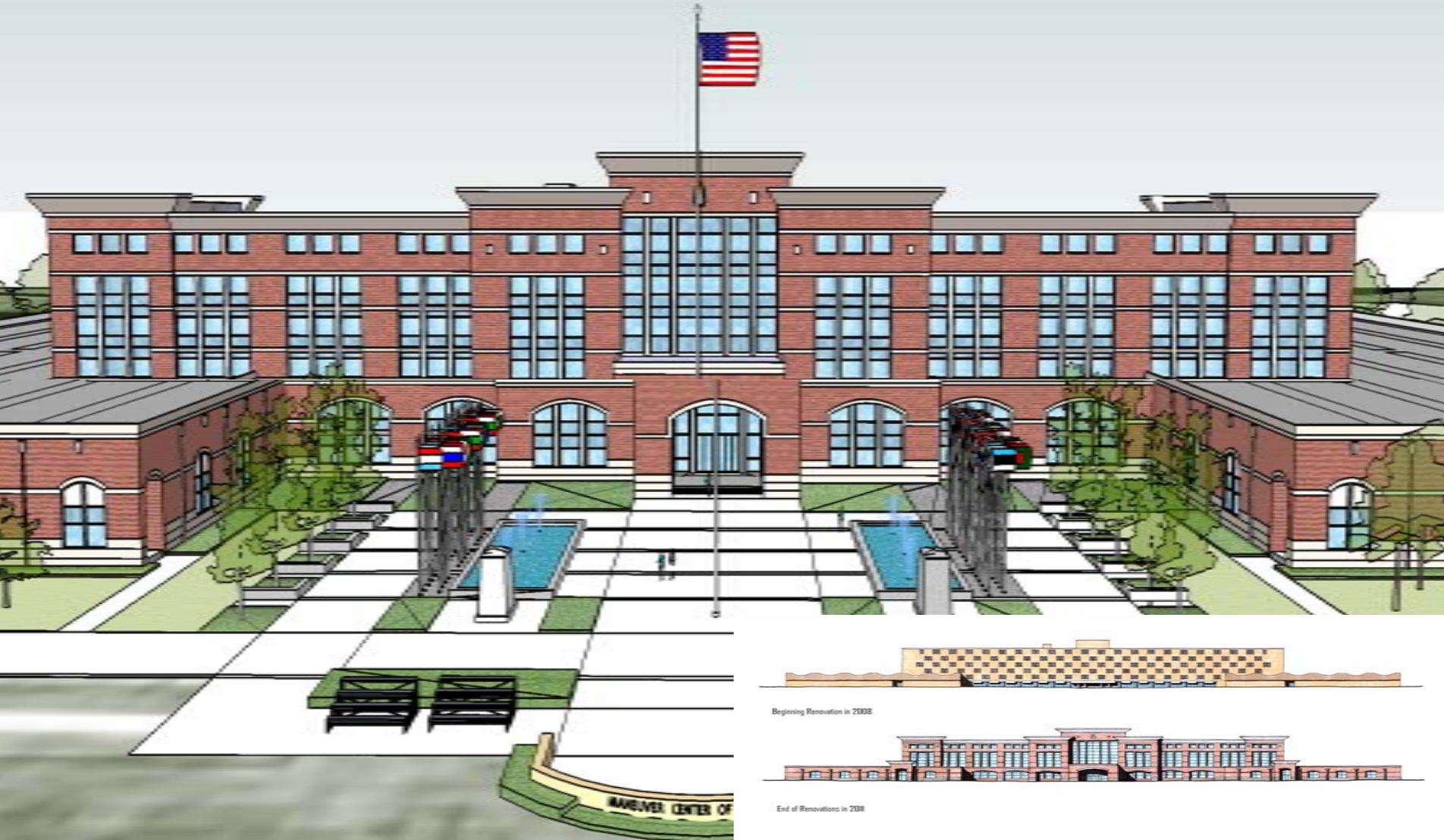
Major Construction



All Building Construction on Fort Benning will Be LEED Silver Certified



Sustainability in our Building



MCOE Command Building will be LEED Silver Certified

Sustainability in our Building



FY07

FY08

FY09

FY10

FY11

FY12

New Post Exchange Mall

National Infantry Museum

- ✓ Maneuver Captains Career Course and Maneuver Advanced Non-Commissioned Officer courses conducted at Fort Benning & Fort Knox

- Virtual Operating Capability:
- Dir of Tng & Doctrine (DOTD)
 - Dir of Training (DOT)

MCOE EIS

- Major Project Changes
- Added BRAC Projects
- Grow the Army Projects

FY 09 Construction (\$571M)

- Ranges projected: 2 tank, 10 small arms, 1 Anti-Armor
- Medical Treatment Facility – Phase I
- Central Wash Facility, Tank Drivers Course
- Vehicle Maintenance Instructional Facility
- Maneuver Center Reception Station – Phase II
- General Instruction Facility – Phase II
- Combined Arms Collective Training Facility
- DS/GS Maintenance Facility, Maneuver Training Area

Armor/
Cavalry
OSUT,
Mechanic
AIT & NCOA
move

MCOE Full Operating Capability (FOC)

- CDID
- DOT
 - MCCC
 - PCC
 - MSTD
- DOTD
- DOTS

National Environmental Policy Act (NEPA)/EIS

- ✓ Biological Assessment
- ✓ Socio-economic Studies
- ✓ Cultural Studies
- ✓ Noise & Traffic
- ✓ Air Quality
- ✓ Wetlands
- ✓ EIS Record of Decision

Environmental Impact Statement (EIS) Approval

FY 08 Construction (\$535M)

- Ranges projected: 1 tank, 5 small arms
- Utility Infrastructure – Phase I
- USMC & 63A/M barracks, Maneuver Simulation Center
- Training Support Brigade – Phase II
- Unit Maintenance Activity
- 16th Cavalry Regiment Headquarters
- Troop Medical & Dental Clinic, Harmony Church
- Medical & Dental Clinic Expansion, Sand Hill
- General Instruction Facility – Phase I
- Maneuver Center Reception Station – Phase I
- Bldg Conversion to Training Support Center

FY 10 Construction (\$409M)

- Ranges projected: 3 small arms
- Maneuver Center Reception Station – Phase III
- General Instruction Facility – Phase III
- Medical Treatment Facility – Phase II
- Maneuver Center HQ Expansion
- Reserve Center/Equip Concentration Site
- Construct Training Area Roads & Trails
- Mounted Battle Lab
- Armor Museum

FY 12 (\$55M)

- Battle Command Training Center
- Chapels
- 14th CSH

FY 07 Construction (\$356M)

- ✓ 19K/D One Station Unit Training (OSUT) barracks
- ✓ Basic Combat Training barracks
- ✓ 1st Armor Training Brigade Headquarters
- ✓ Training Support Brigade – Phase I
- ✓ Child Development Center (6-10 yr old)

Basic Combat Training move

Armor BOLC III SLC CLC move

FY 11 Construction (\$175M)

- Recreation Center, Harmony Church
- Physical Fitness Center, Harmony Church
- Ranges projected: 2 machine-gun & qualif

- NCOA
- 1ATB

• 16th CAV

• 1-46, 2-46 Infantry Battalions

- 19K/D, 63A/M BNCOC
- M-ANCOC
- Armor Functional
- Armor BOLC III
- 63A/M OSUT
- 19K & 19D OSUT
- Basic Combat Tng

Armor School Relocation

- 1 • FY07 MILCON projects award
- 2 • EIS & mitigation requirements drive all MILCON groundbreaking
- 3 • FY08 MILCON projects award (16 CAV)
- 4 • FY09 MILCON projects award (1ATB, NCOA)
- 5 • FY10 MILCON projects award (AFRC, ECS)
- 6 • FY11 MILCON projects award (MWR)
- 7 • MCOE FOC Transfer Complete

As of Feb 08

✓ Projects awarded



Sustainability in our Building



Fort Benning



The Perfect Storm

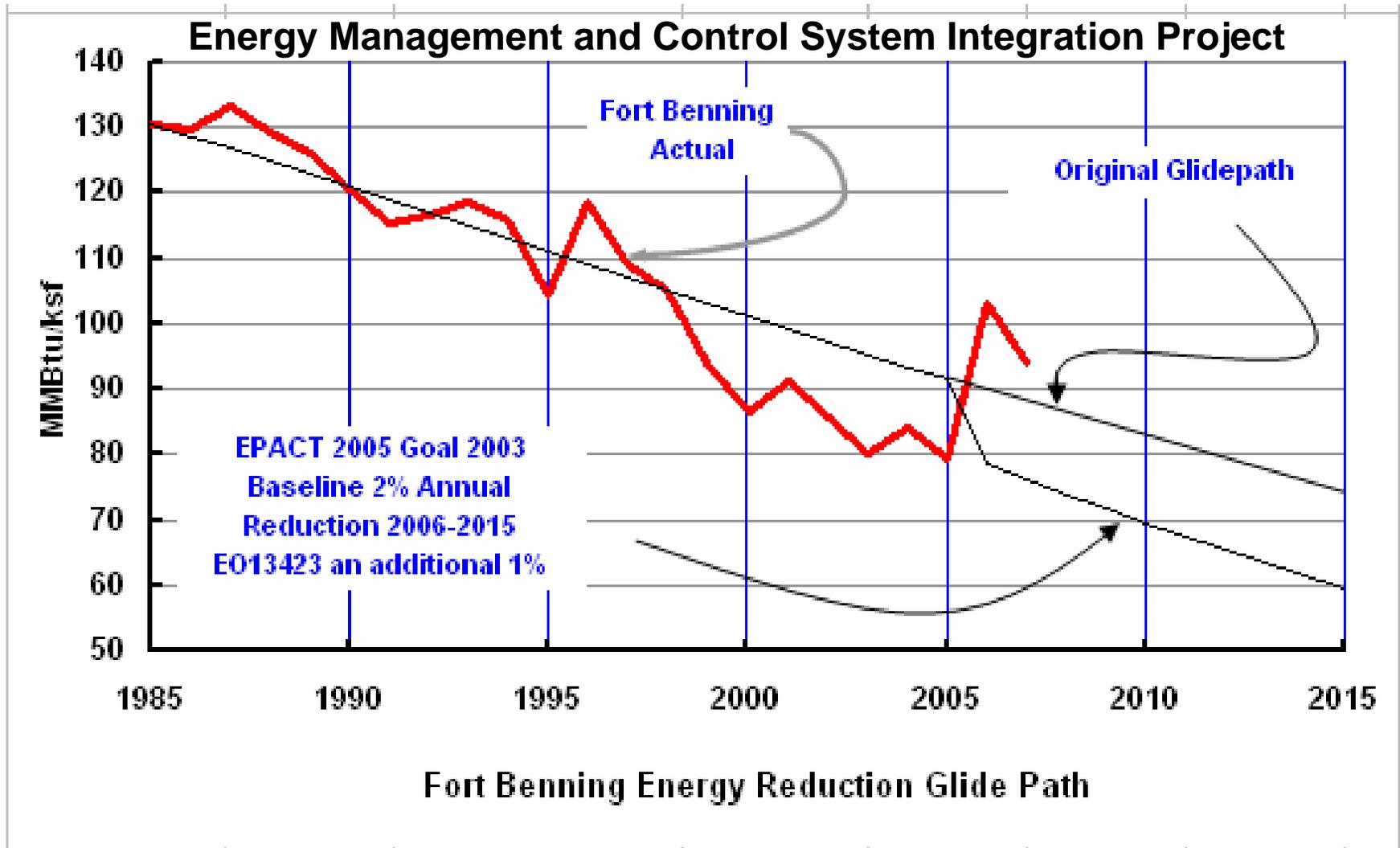


Sustainability in our Engineering



- Geo-thermals
- ESPC – Lighting Conversions
- Electric Meter Installation on Key Buildings
- Energy Performance Verification
- Decentralization of Boiler Plants
- Energy Management and Control System (EMCS) integration and upgrades







Sustainability in our Purchasing



Preferred Energy Star Products



- E85 Pump and B20 Pump

Over 300 GSA Flex Fuel Vehicles



Electric Vehicles

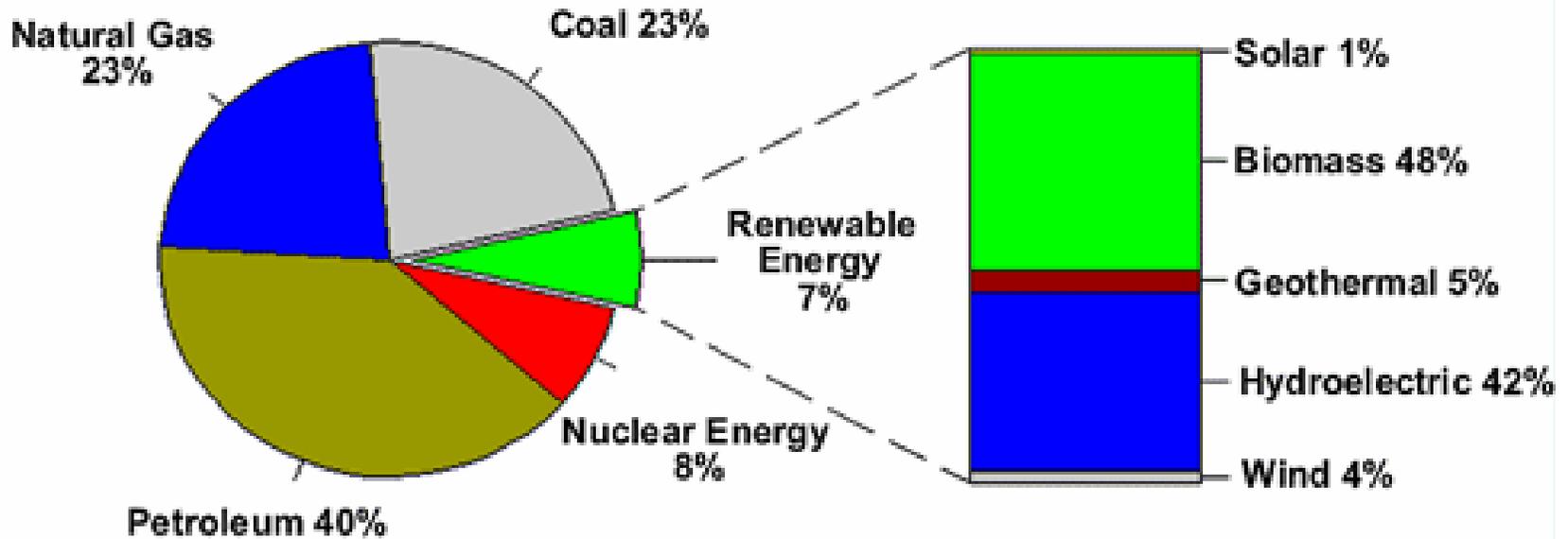


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Recycled and Recyclable Purchases



Sustainability in our Purchasing



“Sustain the Mission Secure the Future”

Fort Benning

Walking the Walk

