



Forest & Landscape Denmark



National centre for research, education and advisory services within the fields of forest and forest products, landscape architecture and landscape management, urban planning and urban design





Vision



We will provide the best coherent programme for research, education and communication for the forest, nature, urban and landscape sectors of the twenty-first century with the aim of promoting a sustainable development





Mission



Our activities include:

- research and development
- education and continuing education
- monitoring
- advice and communication
- services to public authorities
- international development and environmental assistance

within the fields of forest, landscape and planning





Starting from

**Royal Veterinary and Agricultural University
Dept. of Economics,
and Natural Resources**

Research based
education



**Danish Forest and Landscape
Research Institute**

Ministry of the Environment

Research based advisory
services and dissemination of
knowledge

Danish Forestry College

Ministry of Education

Vocational study
programmes



**Danida Forest
Seed Centre**

Ministry of Foreign Affairs

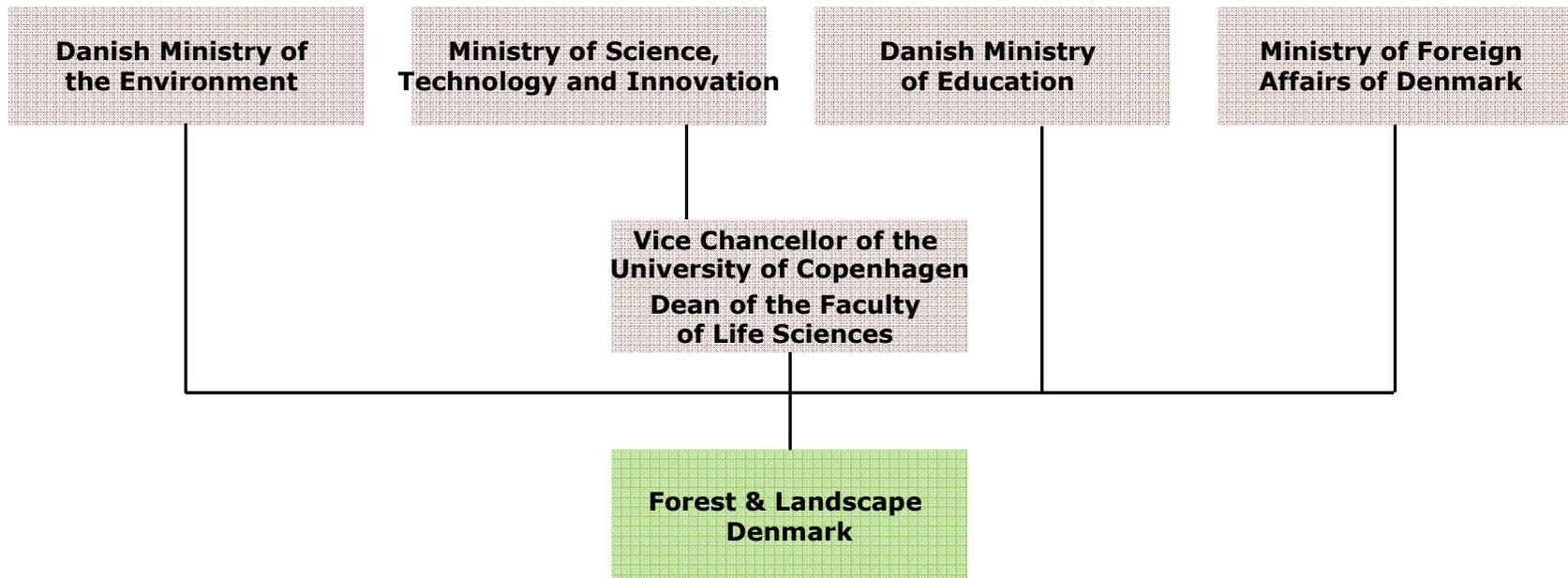
Development assistance

Forest & Landscape



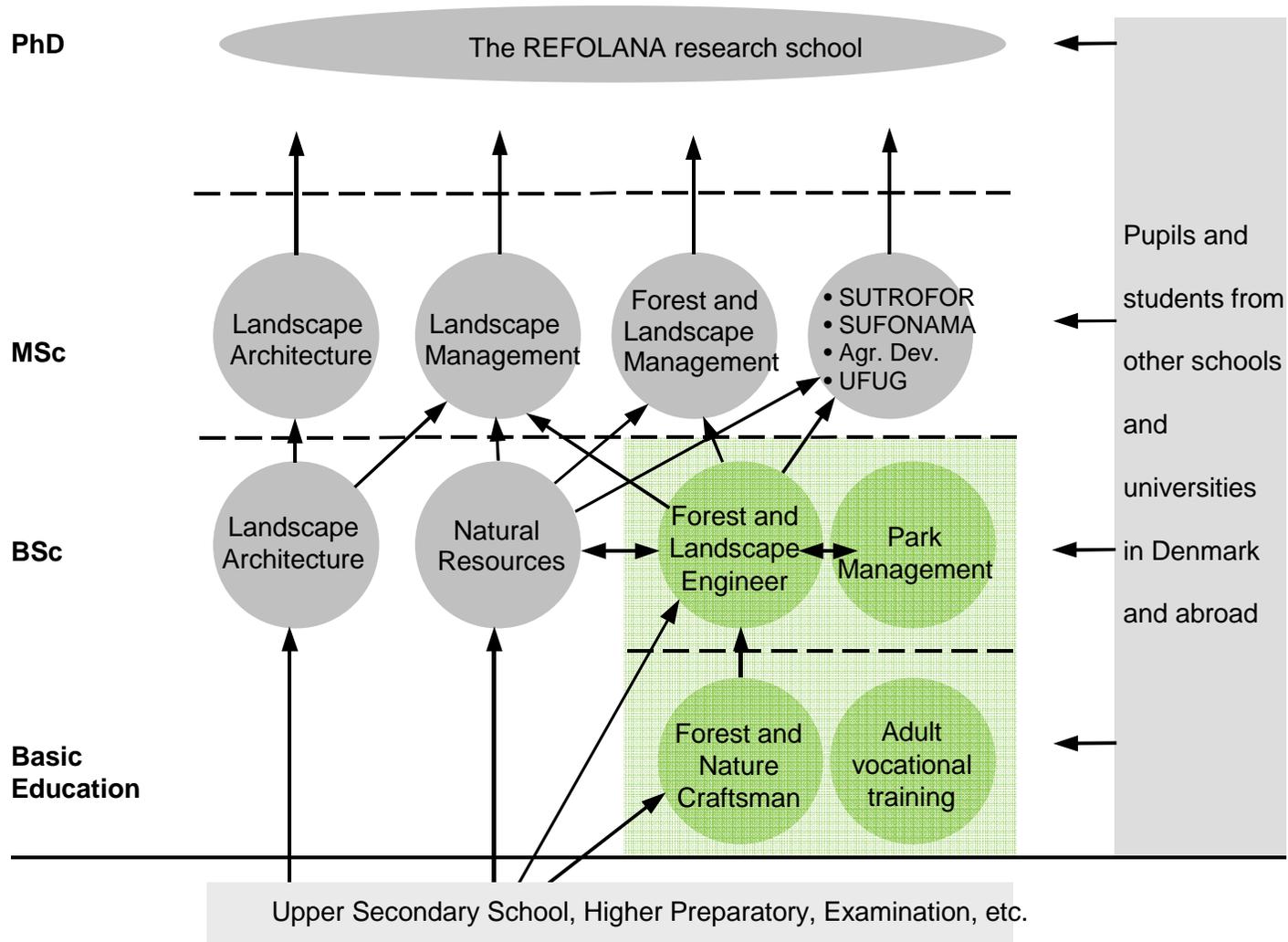


Ministerial affiliation





Education: Coherence





Employees and budget

- Approx. 300 employees
- A total annual budget of approx. 20 million €





*Forest
Educations
in a Changing World*

James J. Kennedy

Forest Resources Department
Utah State University, U.S.A.

Niels Elers Koch

Danish Centre for Forest Landscape and Planning
IUFRO Vice President



WHAT DO NATURAL RESSOURCE (NR) MANAGERS MANAGE ?

- ◆ Not just for good NR stuff (trees or deer) themselves ...
- ◆ Not just for people themselves ...
- ◆ But for valued relationships between them--
- ◆ We manage for people-nature or people-ecosystem relationships--
- ◆ NR managers are relationship managers.



*LET'S TRACE OUR NR MANAGEMENT
AND EDUCATIONAL PHILOSOPHY
EVOLUTION FROM:*

- ◆ TRADITIONAL STAGE #1. NRs FOREMOST AND FOREVER, TO ...
- ◆ TRANSITIONAL STAGE #2.. PROTECTING AND MANAGING NRs INVOLVES PEOPLE (FOR BETTER OR WORSE), TO ...
- ◆ SOCIAL VALUE STAGE #3. WE MANAGE NRs FOR IMPORTANT SOCIAL VALUES, TO ...
- ◆ RELATIONSHIP STAGE #4. WE MANAGE NRs FOR VALUED PEOPLE AND ECOSYSTEM RELATIONSHIPS.



TRADITIONAL STAGE #1.
NRs FOREMOST AND FOREVER
CREDO...

- ◆ We manage for good NR stuff...
- ◆ Such as trees, deer, and clean water...
- ◆ That we personally cherish, and...
- ◆ That our country and future generations obviously need... End of story.



B. E. Fernow. 1902.

ECONOMICS OF FORESTRY (P. 86)

"The first and foremost purpose of a forest growth is to supply us with wood material; it is the substance of the trees itself, not their fruits, their beauty, their shade, their shelter, that constitutes the primary object... "

Any questions?



THE FORESTER AT HOME
SCHIRMER





*I WAS EDUCATED IN THE
TRADITIONAL FORESTER MODE
IN THE 1970s...*

- ◆ The curriculum foundation was math and science...
- ◆ Professional courses were dominated by forest protection and wood production silviculture...
- ◆ Economics (mostly microeconomics) was the only legitimate social science.



*I WAS ALSO EDUCATED IN THE
ENTROPY-AMUCK AND COLD-WAR
CONSERVATION ERA--Act #1 the Premise:*

- ◆ Abundant, threatening entropy forces of insects, diseases, frost and storm damages lurked within our forests and NRs...
- ◆ Abundant, threatening entropy forces of human greed, ignorance or politics lurked outside our forests and NRs...
- ◆ Somehow God must have been asleep at the switch when creating such a complex, interrelated, unorganized ecological and sociopolitical mess.....



*THE ENTROPY-AMUCK AND COLD-WAR
CONSERVATION ERA--Act #2. Enter
Heroes:*

- ◆ We are scientific, objective, caring professionals who must save forests and NRs from themselves and from many alien, outside sociopolitical forces or people.
- ◆ God, science and some informed people are on our side ...
- ◆ But many of the public are not so enlightened and must be "educated".





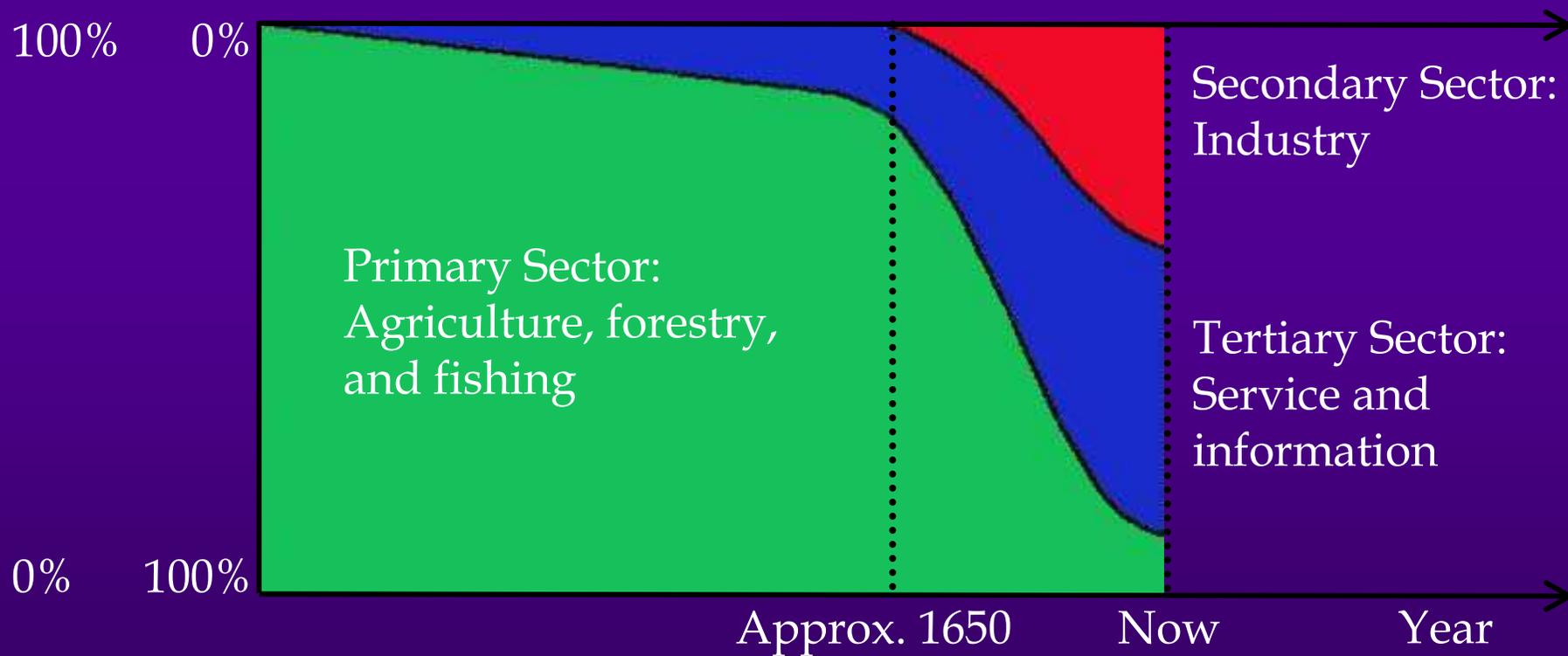
THE ENTROPY-AMUCK AND COLD-WAR CONSERVATION ERA--Acts On-going...

- ◆ In case you haven't noticed, this has all the ingredients of a Greek tragedy...
- ◆ Evil forces confronted by well-meaning heroes-- who are righteous and unintentionally turning many things (deserving or not) into the enemy...
- ◆ Enter hubris and alienation...and begin the tragic ending.





WESTERN WORLD EMPLOYMENT TRENDS





TRANSITIONAL STAGE II.
*NR MGMT (FOR BETTER OR
WORSE) INVOLVES PEOPLE*

- ◆ NRs first and foremost, but their protection and management ...
- ◆ .. increasingly (and often unfortunately) involves people and their institutions.
- ◆ Like Chicago-school economists, many NR managers considered these increasing people impacts as "imperfections" in a more "pure era" of our dreams, or of the past.



*THIS HUMAN DIMENSION O.J.T.
WOULD HAVE BEEN ENHANCED IF
WE WERE GIVEN....*

- ◆ Good attitudes and learning skills to be sensitive, effective students of human behavior.
- ◆ We were given neither.
- ◆ On the contrary, most of us had to unlearn the Victorian and Chicago School pure NR management biases and fantasies we took, along with our diplomas, from university.



*AS A RESULT, THIS HUMAN
DIMENSIONS O.J.T. WAS...*

- ◆ Often slow and inadequate...
- ◆ And sometimes tragic...
- ◆ ... for us, the public and the resources we all cherished.
- ◆ That's a loose-loose situation; it's a Greek or Shakespearean tragedy.
- ◆ How sad...



"*FUTURE SHOCK*"

(A. TOFFLER, 1970)



"*SHOCK*"

Foresters have often
been "shocked"
in the last 20 years
by rapid changes in
their professional roles
and public trust



STAGE III. MANAGING NRs *FOR SOCIAL VALUES*

- ◆ Kennedy (1985) and Koch & Kennedy (1991) propose a concept that brings people into NR management for social values from the start and by the "front door" ...
- ◆ Not the back door (as in Stages I and II), as changing sociopolitical circumstances force them into our management considerations.

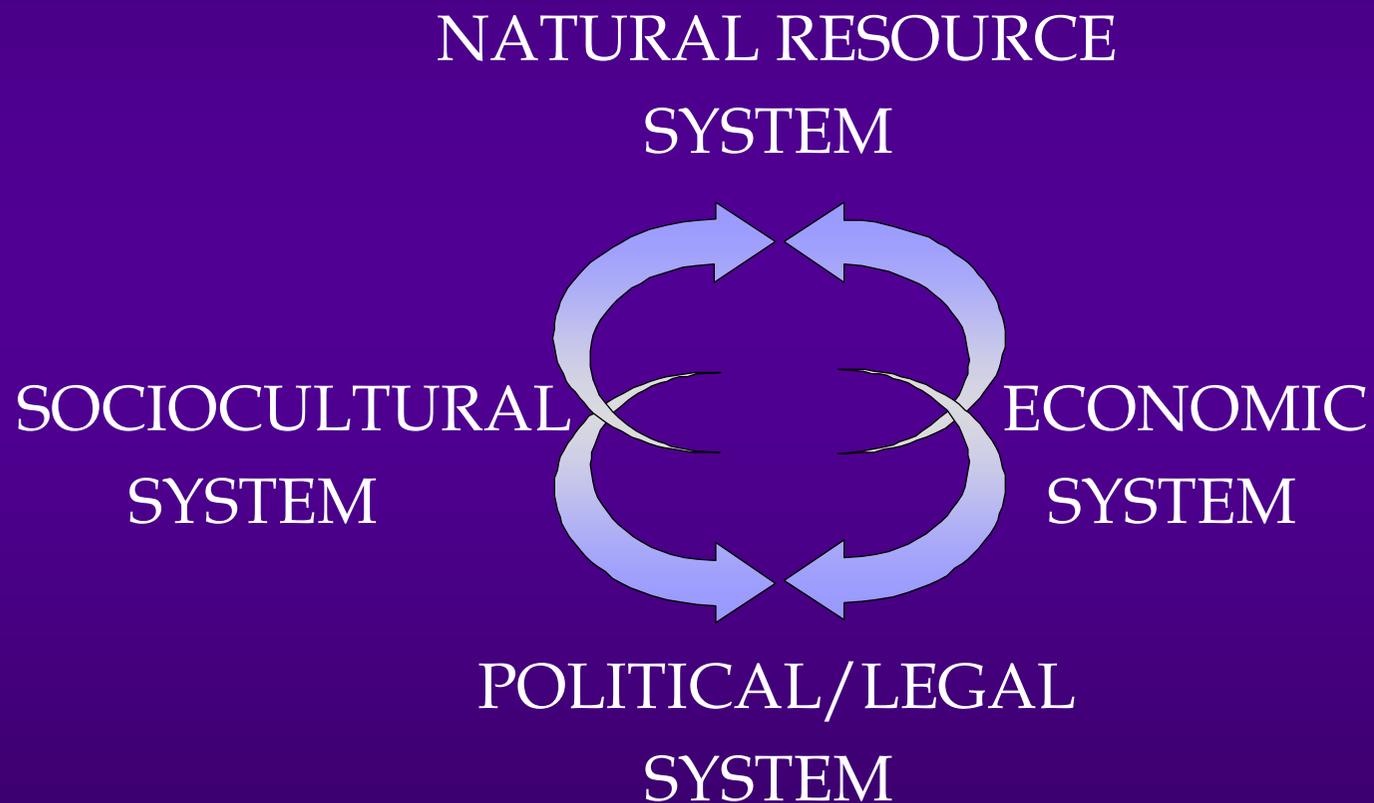


*NR SOCIAL VALUES ARE
COMMUNICATED TO MANAGERS BY
THREE INTERRELATED SYSTEMS...*

- ◆ ECONOMIC--through prices, jobs, taxes...
- ◆ POLITICAL/LEGAL--in budgets, laws, litigation, user fees...
- ◆ SOCIOCULTURAL--in newspapers, clubs, social protest, messages on T-shirts or vehicle bumpers, personal community encounters of managers and/or family...



IN THE SOCIAL VALUE CONTEXT, THE NATURAL RESOURCE SYSTEM IS DEFINED BY AND INTERRELATED WITH THREE HUMAN SYSTEMS :





MANAGING NRs FOR SOCIAL VALUES...

- ◆ Puts people and natural resources first and on equal status...
- ◆ But the social value concept is a new and complex abstraction for many people...
- ◆ How about a core management concept that begin by recognizing that we do not manage:
 - for NRs themselves, or...
 - for people themselves,...
- ◆ But for valued relationship between the two.



STAGE IV. THE CORE NR MANAGEMENT PREMISE BEGINS:

- ◆ Not with people alone...
- ◆ Not with ecosystems alone...
- ◆ But with the intersection of both sets
(recall your math set theory)... 
- ◆ that yield valued people-nature relationships...
defining natural resources in human
heads and hearts, and driving NR
management in 21st century and beyond.



*CONCLUSIONS: OUR NR
MANAGEMENT PREMISE SHIFTING
FROM...*

- ◆ Managing NRs for good tree, deer or water stuff, to...
- ◆ Managing NRs for social values, to...
- ◆ Managing NRs for valued human and nature relationships...
- ◆ Is quite a transition in our thinking and management responsibilities.



*CONCLUSIONS-- I BELIEVE
MANAGING FOR VALUED HUMAN-
NATURE RELATIONSHIPS IS:*

- ◆ A logical, valid and operational core-concept for managers and lifetime learners.
- ◆ It meets important criteria of a lifetime learning concept in being...
- ◆ Inclusive of ecological, economic, sociocultural and political systems...
- ◆ Integrative of their complex interrelationships...and...
- ◆ Adaptive in recognizing the way these systems interact and adapt to one another.



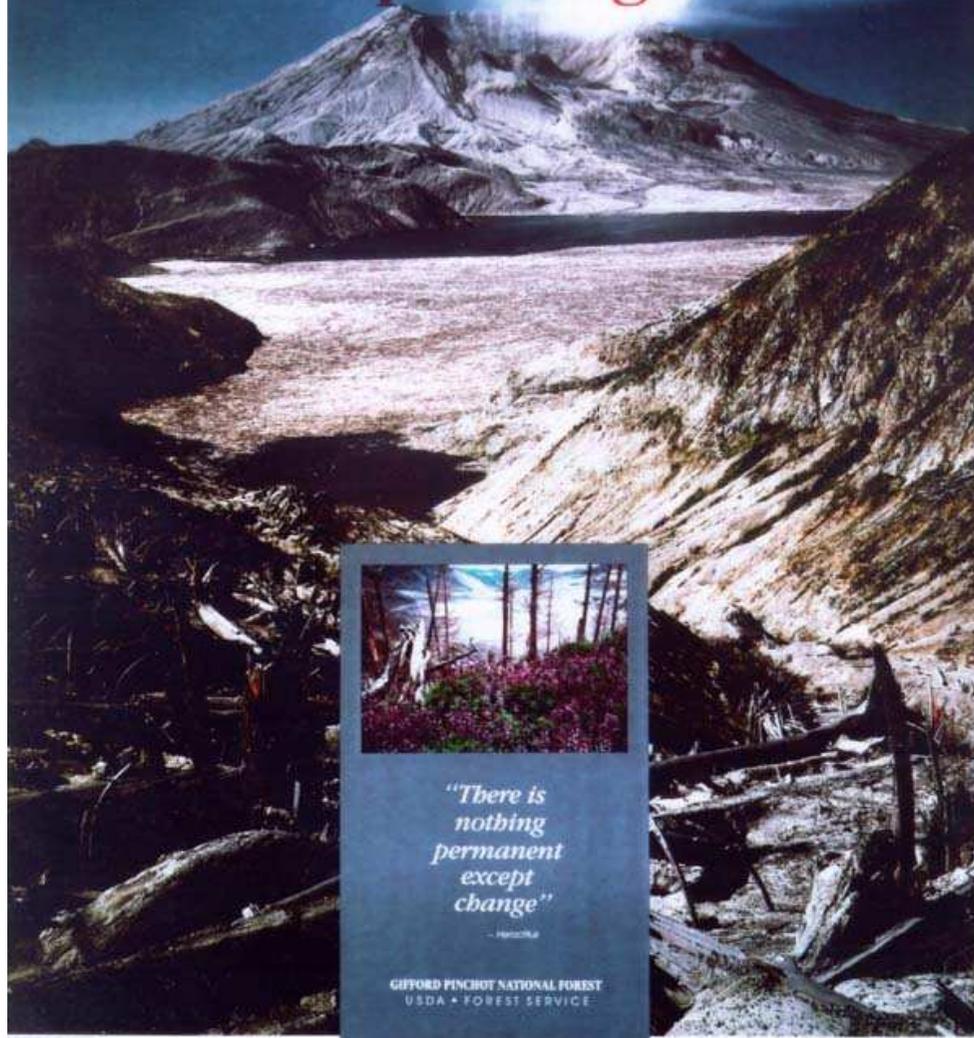
THE FORESTER AT HOME
SCHIRMER



MOUNT ST. HELENS

NATIONAL
VOLCANIC
MONUMENT

There is nothing permanent
- except change



*"There is
nothing
permanent
except
change"*

- Heraclitus

GIFFORD PINCHOT NATIONAL FOREST
USDA • FOREST SERVICE