

What are we looking for on Day 2?

**Consensus/Majority of Workshop? And on what?**

Principles or Elements of a Back End Integration Strategy

– Kosson's Presentation

(could probably get consensus on most)

Agreement on what the PROBLEM is?

(consensus? would be surprised)

A single scenario?

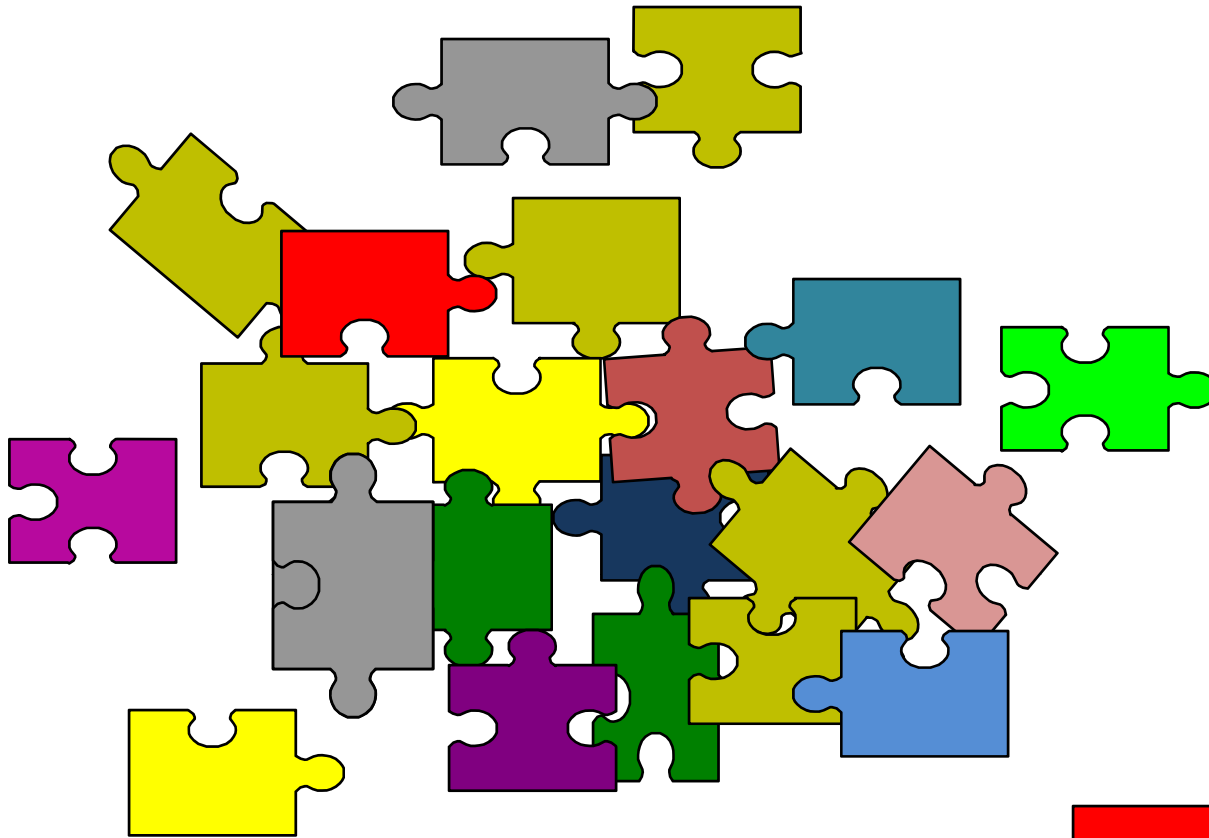
(very unlikely – we don't really agree enough on  
what the PROBLEM is and on key parameters)

Three viable scenarios?

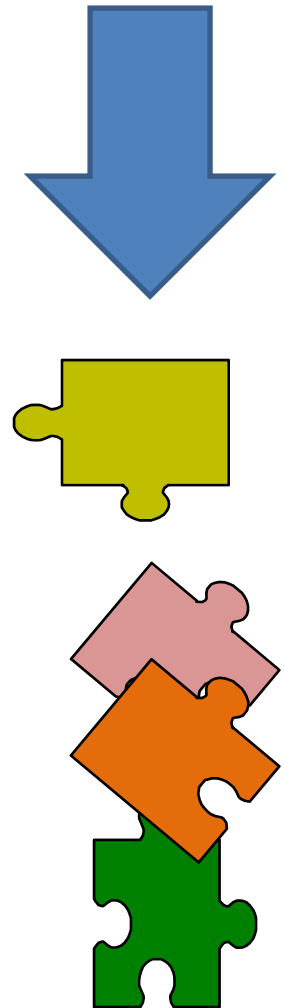
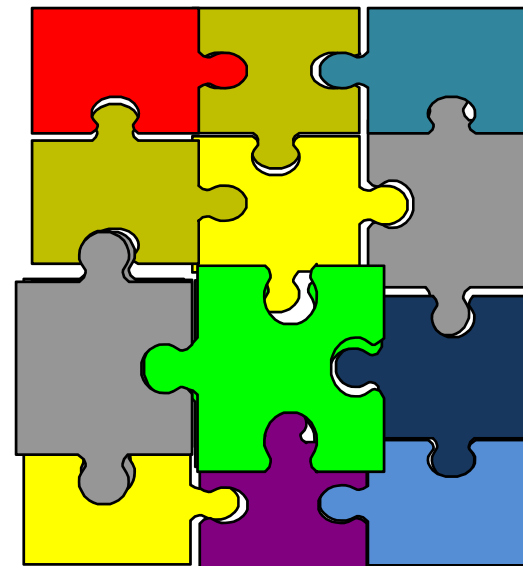
reflecting different visions of the task

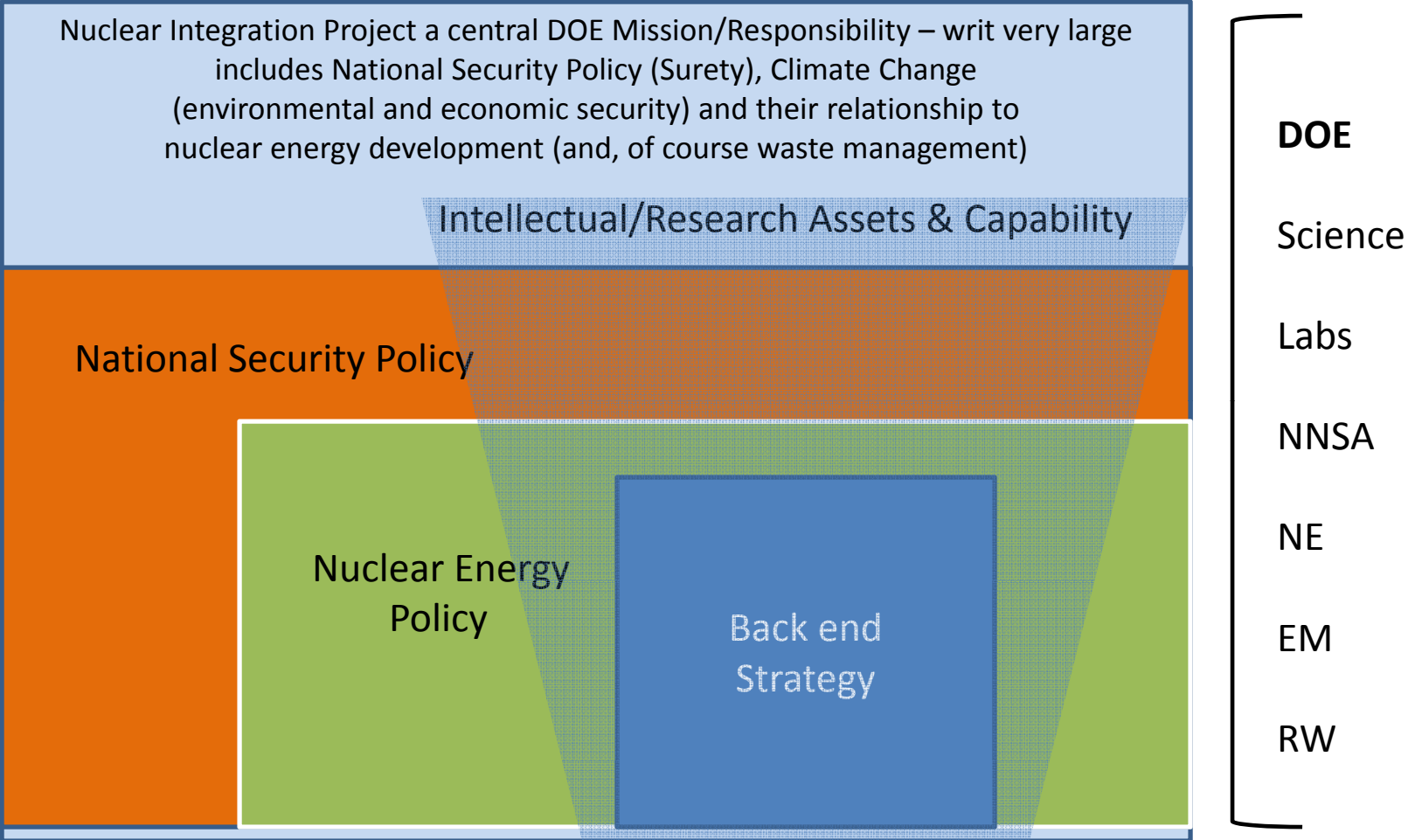
One thing on which we can probably agree – the scenarios that  
attract us will have most of the Kosson principles

**+ a synthesis in which the puzzle pieces seem to fit!**

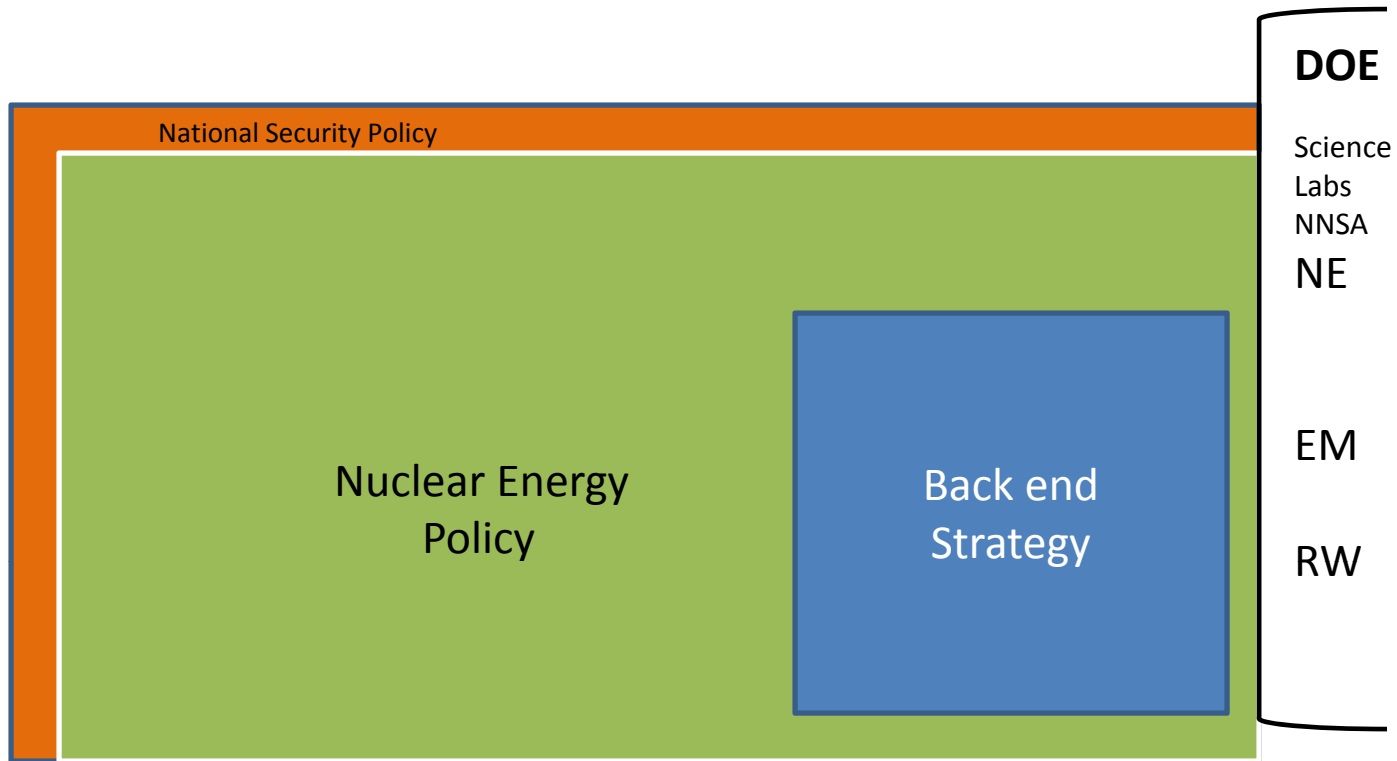


The scenarios we seek will be made up of the right pieces – But the real triumph would be to have them come together into a coherent spatial structure – and have the scenario link to a doable temporal schedule

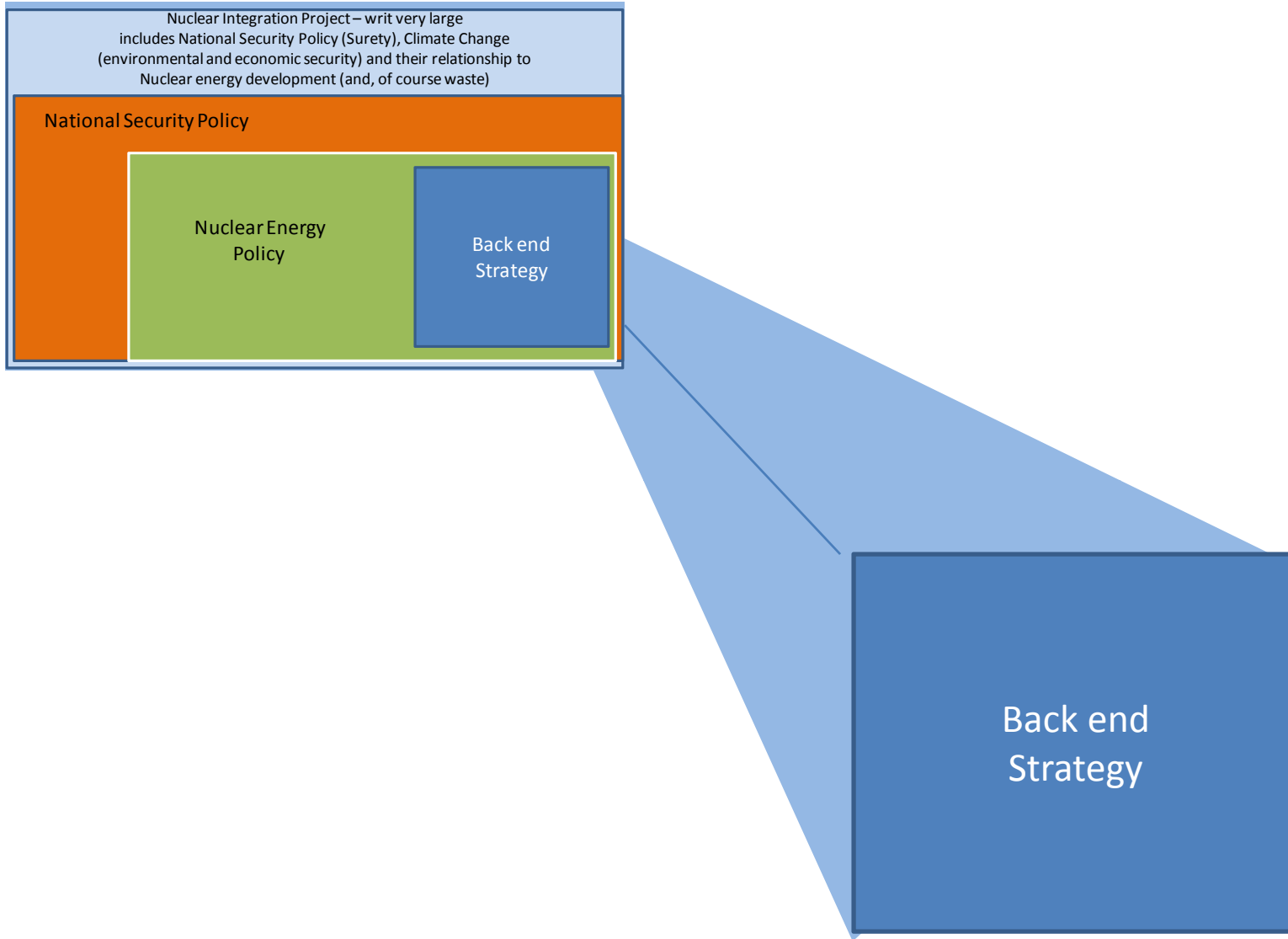




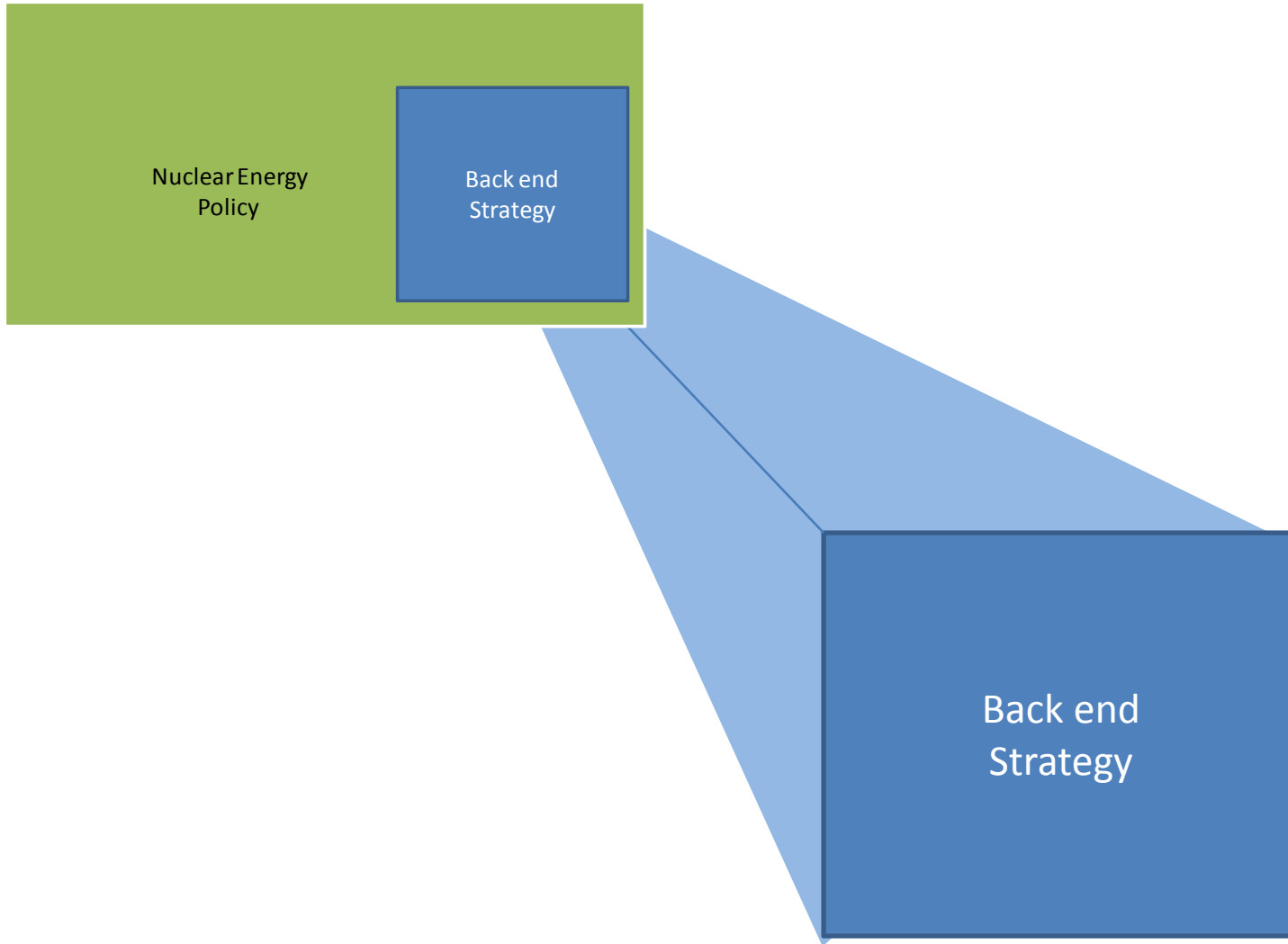
In what context do we want to place the Vision for an Integrated “back end” of the fuel cycle



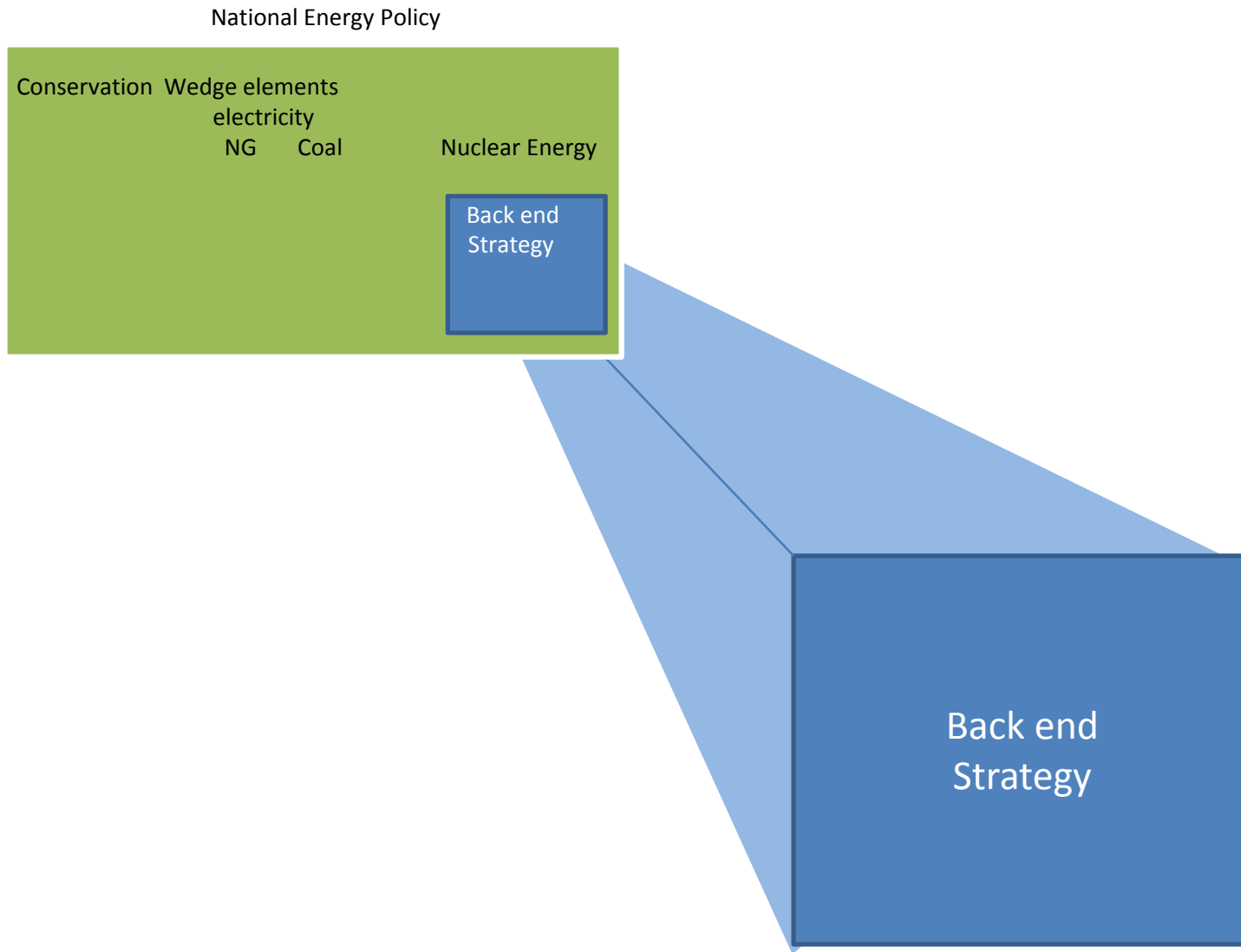
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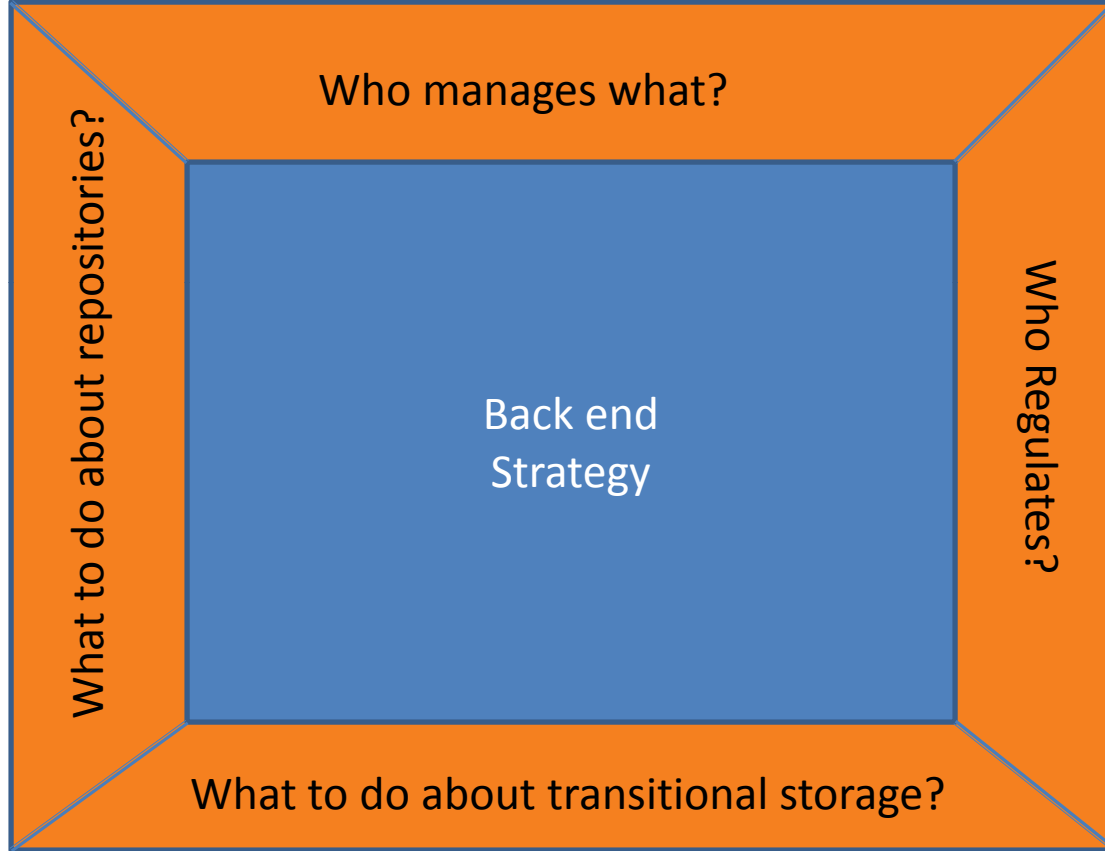
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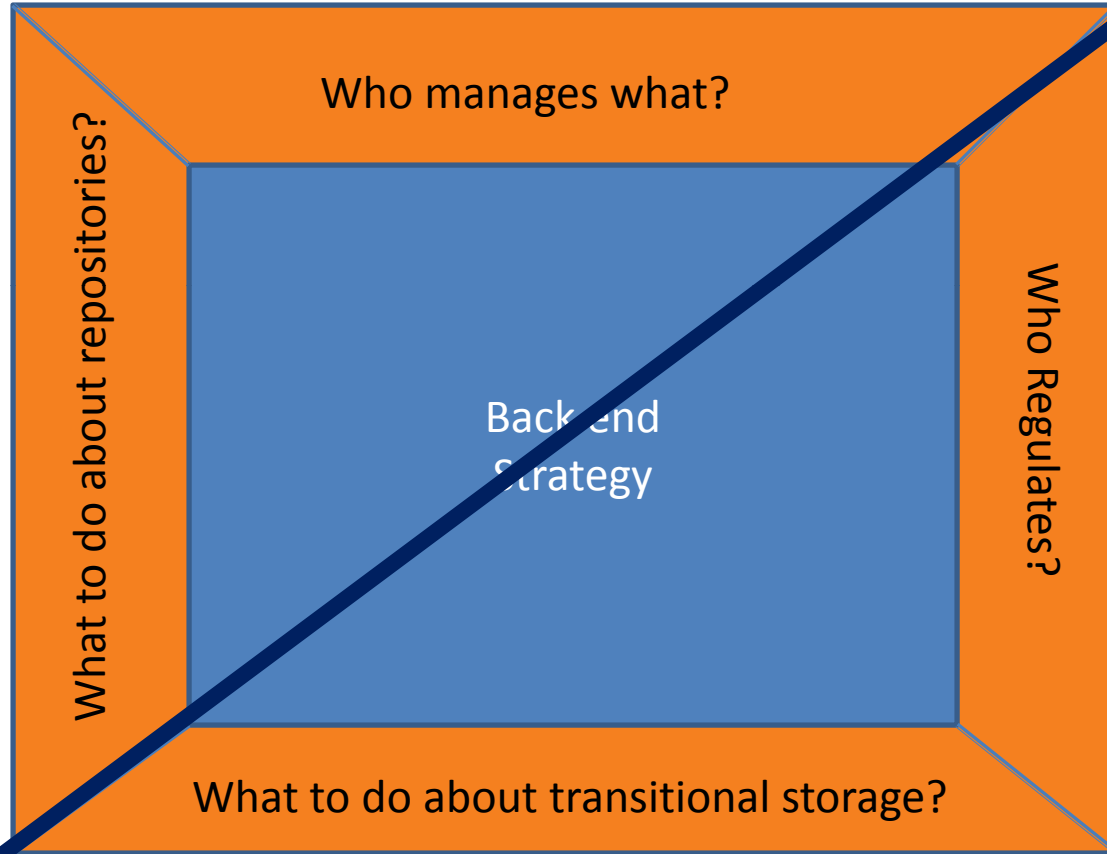


In what context do we want to place the Vision for an Integrated “back end” of the fuel cycle





Civilian



Defense

## Crisis – Priority Attention

Back end in Disarray

Fundamental Top-to-Bottom  
Revision and Statutory Change

Back-end in Disarray

Except:

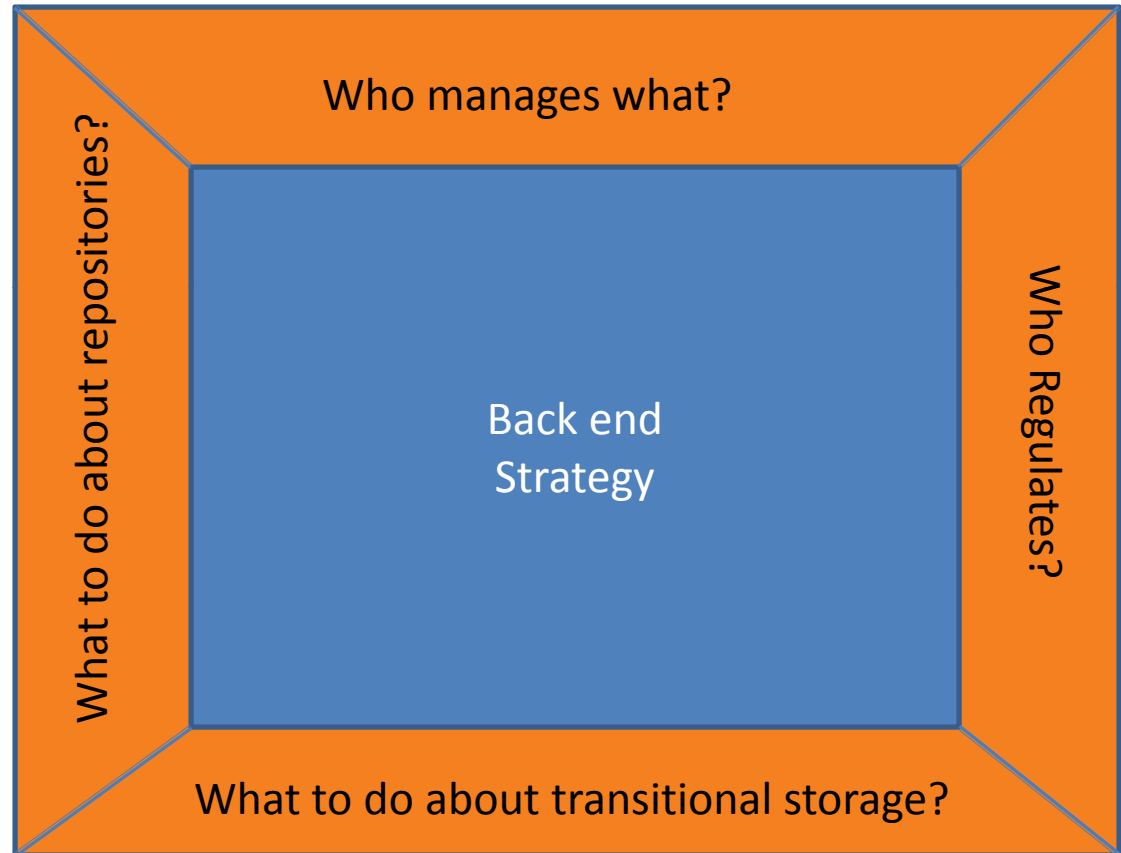
WIPP WORKS!

**Emulate in all things**

Phased Pilots

Public Acceptance

SNF / HLW / TRU Division



## Look for the “silver bullet” to change the paradigm?

Is there “silver bullet” so that if we changed 1 or 2 elements  
The entire system could be put back on track?

Examples:

Specialized Depository/Storage by waste type

License Yucca – but limit it first to defense HLW alone  
and then processing generated HLW

Seek state approval to allow WIPP to take all TRU – civilian and defense  
Address CS and SR when separated as a distinct waste management  
problem and stored in a separate facility until no longer a danger

**Require** all SNF to go to 100 year on-site or regional storage  
(from date of end of service) US takes it.

Open bidding for three or more U.S. **SNF** Depositories  
appropriate size, location,  
track with WIPP procedures  
link to reprocessing, evolved compensation  
give NAS/an independent BRAC-like Board the selection authority  
to be Operated by (???? )

## **Incremental Strategy:**

Amend NWPA to deal with full waste flow to Yucca

Open up new repository evaluation and selection process

Open up options for interim/transitional storage

Make reprocessing a research/policy goal of the US

Separate the waste treatment/disposition of HLW and SNF

## **Paradigm shifting policy:**

Commit then nation to a closed fuel cycle

Link the management / disposition the defense HLW with the Processing waste

Establish the basis for waste confidence as a set of research/implementation achievements for a closed cycle system as defined

Establish a presidentially appointed and congressionally approved BRAC-like Board with significant expenditure and compensation authority for siting the several nuclear waste processing, storage and repository disposition facilities that must Achieve concurrence of either the governor or the state legislature of the state in which the facility is to be built

in accordance with a regulatory regime established by a redefined NRC

What about re-classification of wastes?

How important – really?

Is there an alternative?

adopt European waste classification scheme  
as path to international disposition solution?

back to the drawing boards to replace origin based standards

ALTERNATIVELY

what about a multi-attribute evaluative metric –  
further developed by the NAS – to assess the risks  
of all sorts (environmental – including warming –  
security – and economic) of generating a common unit of  
energy

and use that metric for the evaluation of both  
existing energy sources and to prioritize spending  
on alternate energy conserving or generating systems

