

PANEL

BDIM: state of the art and future directions

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April 7, 2006

1st IEEE / IFIP International Workshop on Business-Driven IT Management

BDIM'06



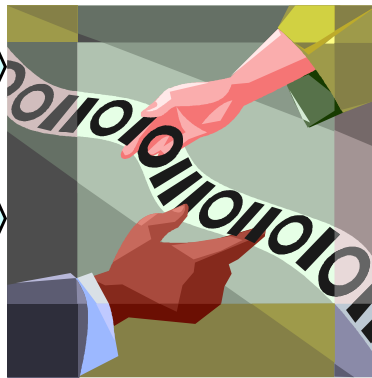
April 7, 2006
in conjunction with NOMS'06
Vancouver, Canada

Business: Financial Investment



Business goals:

Protect clients' data



Provide superior service to premium customers



Derived IT management policies:

```
<Policy PolicyId="SamplePolicy"
  PolicyCombiningAlgId="urn:oasis:names:
  ttc:xacml:1.0:rule-combining-
  Algorithm:permit-overrides">
  <Target>
  <Subjects> <AnySubject/> </Subjects>
  <Resources>
  <ResourceMatch
```

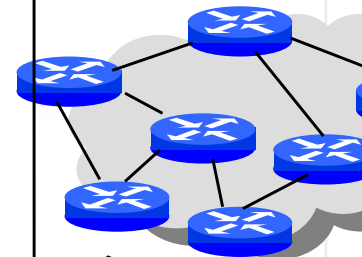


```
class-map match-all gold
match ip dscp 10 12 14
class-map match-all EB
match access-group 101
class-map match-all AF21
match access-group 108
```

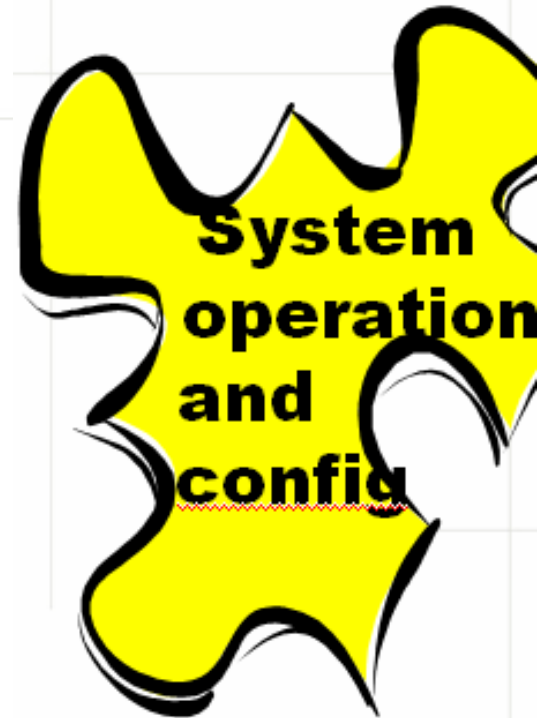


```
policy-map AVVID
class silver
bandwidth percent 35
random-detect dscp-based
random-detect dscp 18 20 40 10
random-detect dscp 20 20 40 30
random-detect dscp 22 2 3 3
```

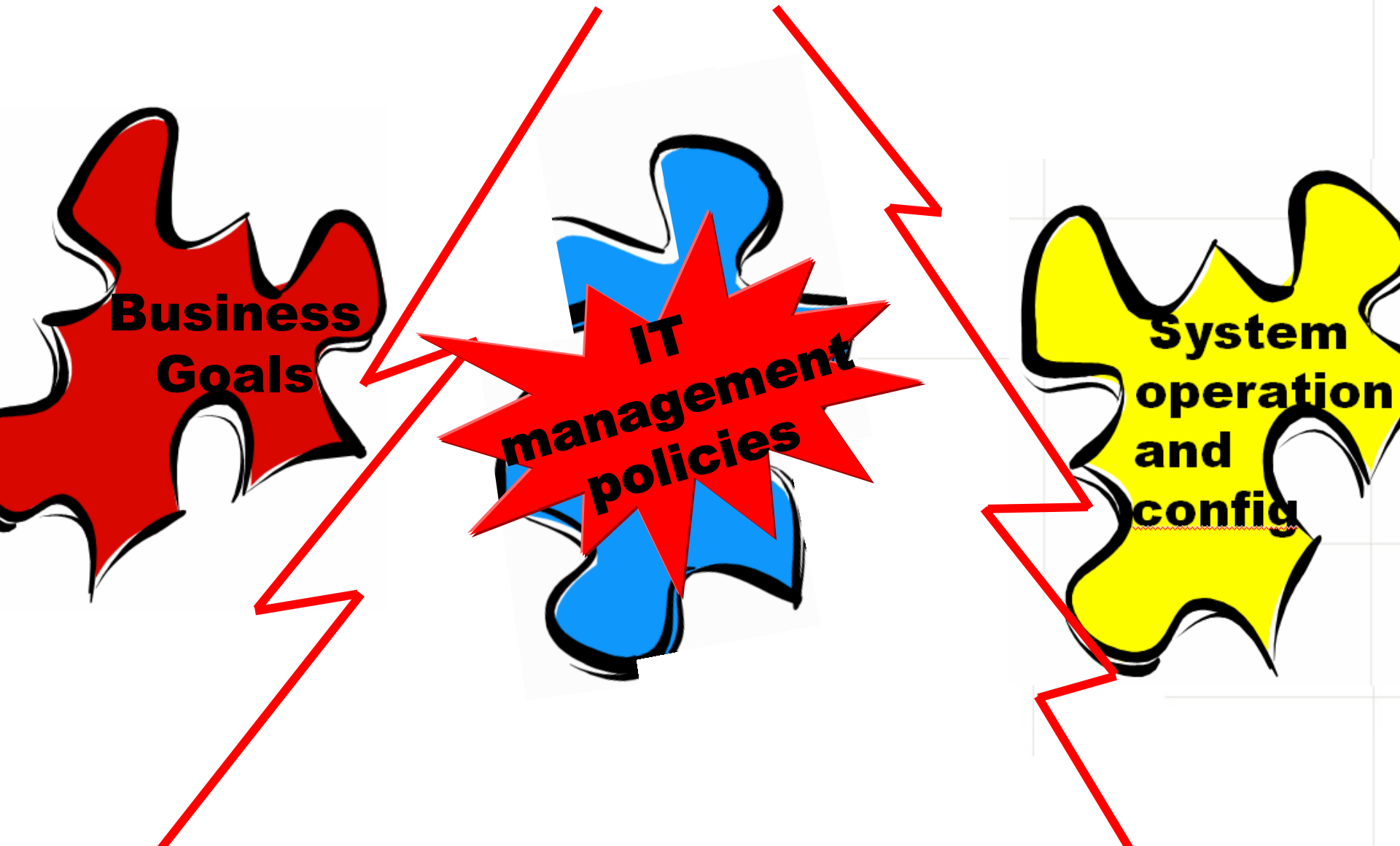
System configuration and operation



Pieces of the puzzle



State of the Art

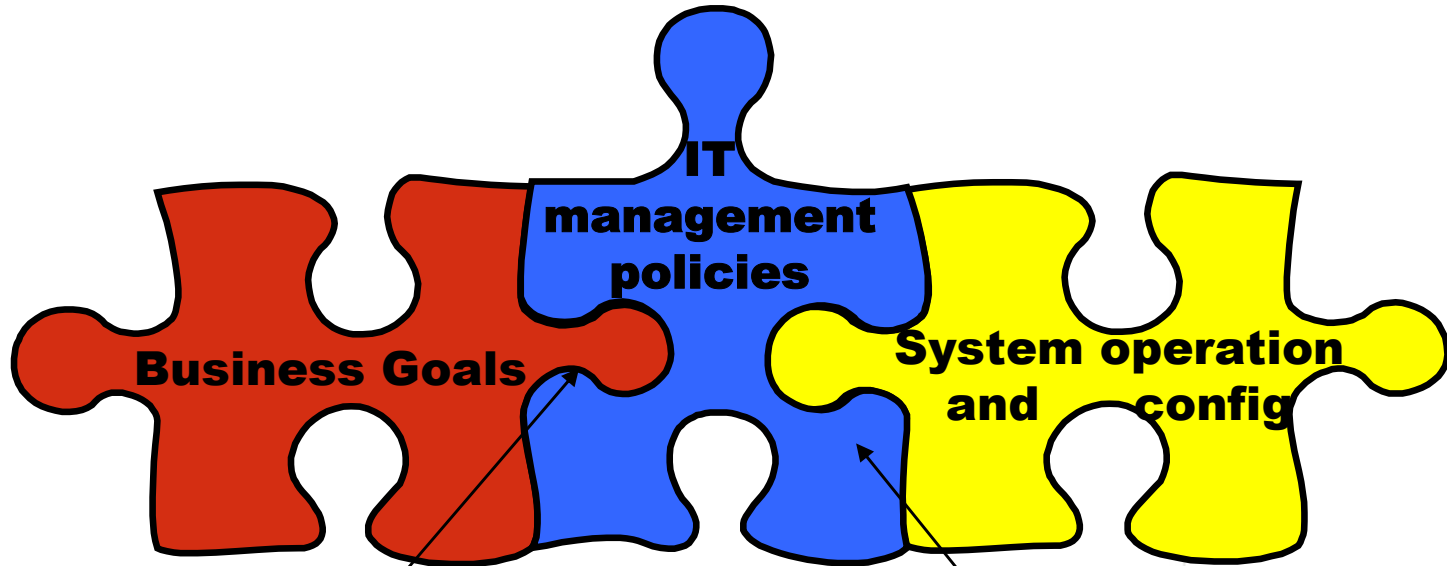


Business Goals

IT management policies

System operation and config

Vision



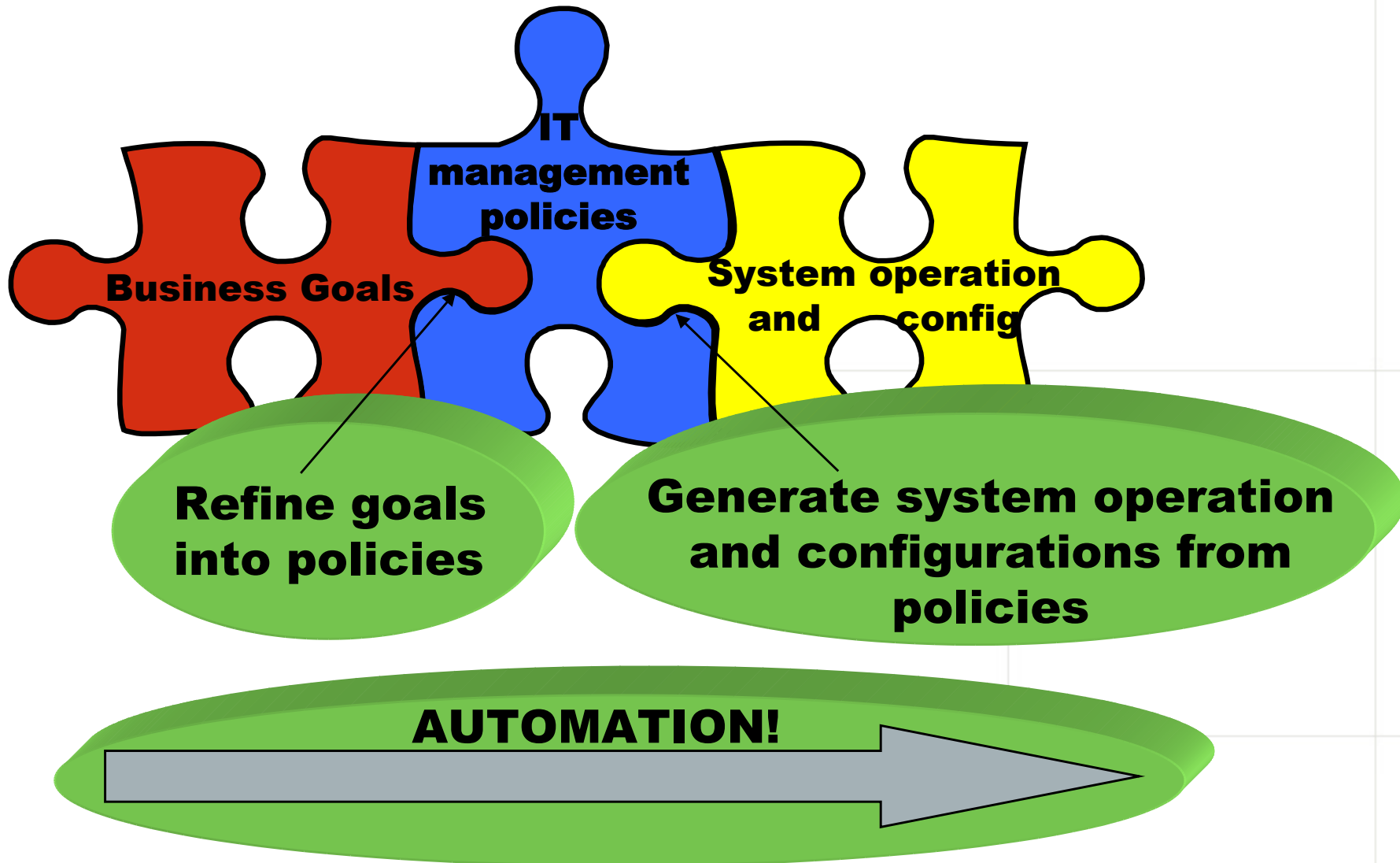
Refine goals into policies

Generate system operation and configurations from policies

AUTOMATION!



Challenges





Ongoing research...

AUTONOMIC COMPUTING

POLICY-BASED MANAGEMENT

GOAL REFINEMENT

SECURITY POLICIES

SLA MANAGEMENT

DEN-NG

MONITORING