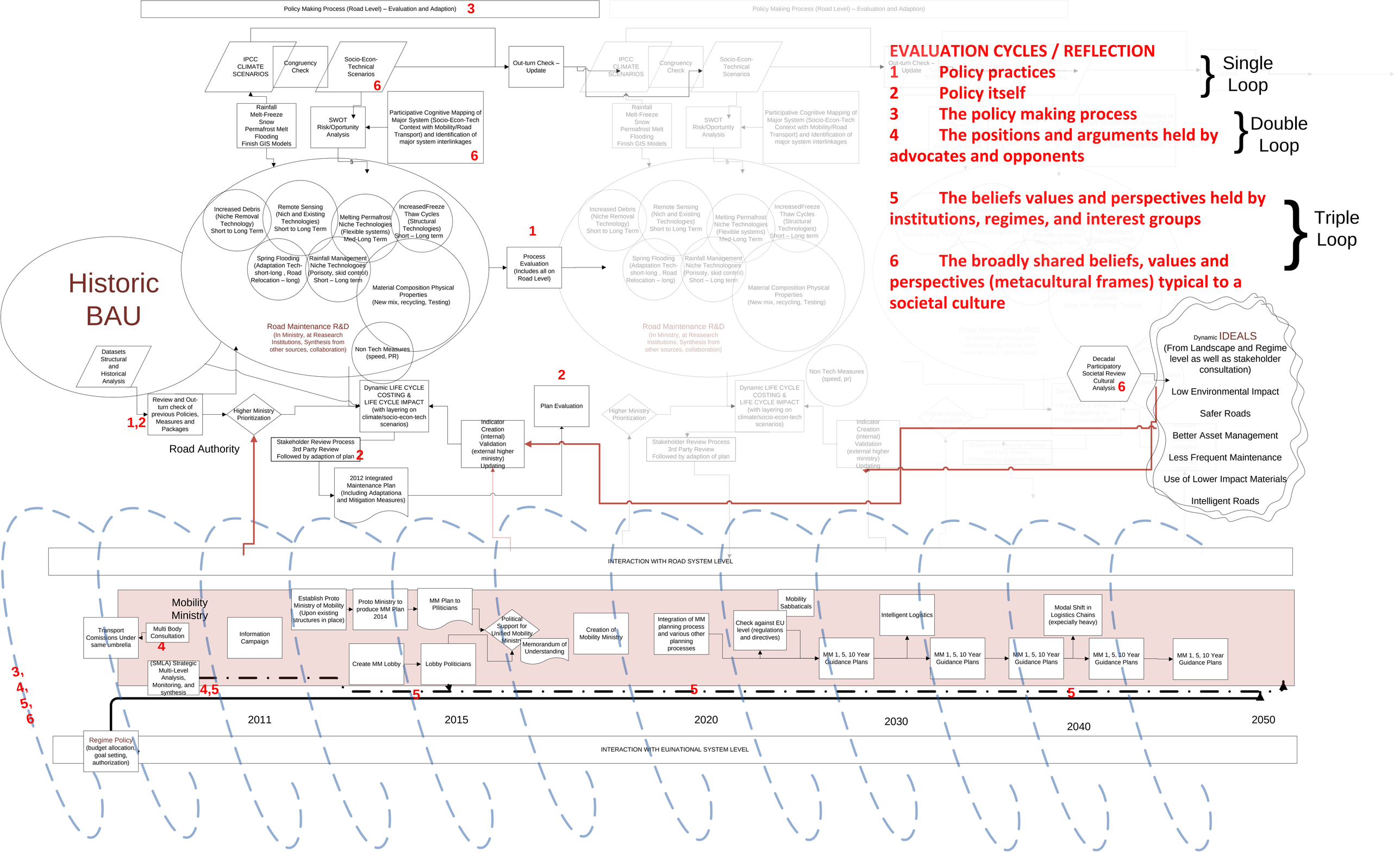
Policy Making Process (Road Level) – Evaluation and Adaption) 3
IPCC CLIMATE SCENARIOS
Congruency Check
Socio-Econ-Technical Scenarios 6
Out-turn Check – Update
Rainfall Melt-Freeze Snow Permafrost Melt Flooding Finish GIS Models
SWOT Risk/Oportunity Analysis
Participative Cognitive Mapping of Major System (Socio-Econ-Tech Context with Mobility/Road Transport) and Identification of major system interlinkages 6
Increased Debris (Niche Removal Technology) Short to Long Term
Remote Sensing (Nich and Existing Technologies) Short to Long Term
Melting Permafrost Niche Technologies (Flexible systems) Med-Long Term
IncreasedFreeze Thaw Cycles (Structural Technologies) Short – Long term
Spring Flooding (Adaptation Tech- short-long , Road Relocation – long)
Rainfall Management Niche Technologoes (Porisoty, skid control) Short – Long term
Material Composition Physical Properties (New mix, recycling, Testing)
Road Maintenance R&D (In Ministry, at Reasearch Institutions, Synthesis from other sources, collaboration)
Non Tech Measures (speed, PR)
Historic BAU
Datasets Structural and Historical Analysis
1
Process Evaluation (Includes all on Road Level)
2
Plan Evaluation
Review and Out-turn check of previous Policies, Measures and Packages
1,2
Higher Ministry Prioritization
Dynamic LIFE CYCLE COSTING & LIFE CYCLE IMPACT (with layering on climate/socio-econ-tech scenarios)
Indicator Creation (internal) Validation (external higher ministry) Updating
Stakeholder Review Process 3rd Party Review Followed by adaption of plan 2
2012 Integrated Maintenance Plan (Including Adaptationa and Mitigation Measures)
Road Authority
Non Tech Measures (speed, pr)
EVALUATION CYCLES / REFLECTION
1 Policy practices
2 Policy itself
3 The policy making process
4 The positions and arguments held by advocates and opponents
5 The beliefs values and perspectives held by institutions, regimes, and interest groups
6 The broadly shared beliefs, values and perspectives (metacultural frames) typical to a societal culture
Single Loop
Double Loop
Triple Loop
Decadal Participatory Societal Review Cultural Analysis 6
Dynamic IDEALS (From Landscape and Regime level as well as stakeholder consultation)
Low Environmental Impact
Safer Roads
Better Asset Management
Less Frequent Maintenance
Use of Lower Impact Materials
Intelligent Roads
INTERACTION WITH ROAD SYSTEM LEVEL
Mobility Ministry
Transport Comissions Under same umbrella
Multi Body Consultation 4
(SMLA) Strategic Multi-Level Analysis, Monitoring, and synthesis 4,5
Information Campaign
Establish Proto Ministry of Mobility (Upon existing structures in place)
Proto Ministry to produce MM Plan 2014
MM Plan to Plliticians
Create MM Lobby
Lobby Politicians
Political Support for Unified Mobility Ministry
Memorandum of Understanding
Creation of Mobility Ministry
Integration of MM planning process and various other planning processes
Check against EU level (regulations and directives)
Mobility Sabbaticals
MM 1, 5, 10 Year Guidance Plans
Intelligent Logistics
Modal Shift in Logistics Chains (expecially heavy)
3, 4, 5, 6
5
2011
2015
2020
2030
2040
2050
Regime Policy (budget allocation, goal setting, authorization)
INTERACTION WITH EU/NATIONAL SYSTEM LEVEL