Typical PPP Risk Allocation

Risk Type	Describe	Allocation	Mitigation
Technology Performance	Existing technology unproven in terms of revenue service	Private (vendors)	Warranties
Environmental Flaws or Delay	Lengthy studies Public Permitting delays Regulatory approval periods		Strong process management Private Partner assistance
Market Revenues	Customer willingness to pay for level of service (LOS) unknown; affects interest rate and marketability for project-based revenues financing Traffic and revenue below projections Competing/alternative projects Excessive capital maintenance Insufficient revenues to fund ongoing O&M	Public and Private (funders/ lenders)	Investment grade traffic and revenue studies accepted by rating agencies Adequate debt coverage ratios Adequate reserves Credit enhancement, insurance Toll adjustment flexibility Careful budgeting processes and O&M controls Non-compete protections

Risk Type	Describe	Allocation	Mitigation
Completion Costs	Cost and schedule overruns	Private (construction contractor) and Public	Use of fixed price/guaranteed maximum contract Adequate contingency funds Liquidated damages Force major insurance Design and construction management/over sight by Public Partners (which may be outsourced) Financially viable Private Partners Specialized surety products Allowing Private Partners to undertake majority of design

Risk Type	Describe	Allocation	Mitigation
Risk Type O&M Costs	Excessive costs of operations Excessive capital maintenance expenditures Unpredictability of costs Regulation of DUC rates and contractor ROR	Allocation Private (O&M contractor) and Public	Non-recourse financing Minimum guarantees Toll adjustment flexibility Credit enhancement, insurance Careful budgeting processes Capital asset replacement assurances Warranties, incentives, and penalties Financially viable
			Private Partners Use of private O&M
			contract Use of fixed price/guaranteed maximum pricing, with escalations and adjustments over time

Risk Type	Describe	Allocation	Mitigation
Policy/Political Constraints/ Support	Uncertainties regarding public policy and change in law Regulatory uncertainties Funding support	Public and Private	Persuasive and supported arguments for project Early regulatory agency involvement Public relations and citizen/policymaker education campaign Community engagement and buy-in strategy
Phasing Timing and Resources	Uncertainties regarding initial vs. subsequent phase economics	Public and Private	Strong process management Early regulatory agency involvement Expedited and streamlined procurement process Early and continuous contact with other states and local governments
Liability	Construction Defects Day-to-day operational Subcontractor claims Environmental	Public and Private	Warranties Insurance Well-thought out allocation of liability in contract based upon party best able to control and mitigate Innovative insurance products