

ITS Implementation Tools and Resources

MnDOT ITS Systems Engineering Website (<http://www.dot.state.mn.us/its/systemsengineering.html>)

- FHWA Implementation Memo (<http://www.dot.state.mn.us/its/docs/fhwaimplementationmemo.pdf>)
- Highway Project Development Process (HPDP) – ITS (<http://dotapp7.dot.state.mn.us/edms/download?docId=1598710>)
- ITS Checklists & Systems Engineering Documents
 - Class A-1 and Class A-2 (Programmatic ITS Applications)
 - Class B-1 (Freeway Traffic Management Applications)
 - Class B-2 (Arterial Traffic Management Applications)
 - Class C (Large/Complex Projects)

Minnesota Statewide Regional ITS Architecture (2018)

- <http://www.dot.state.mn.us/its/projects/2016-2020/itsarchitecture.html>
- Implementation Volume – ITS Initiatives and Project Concepts for Implementation (<http://www.dot.state.mn.us/its/projects/2016-2020/itsarchitecture/implementation-volume.pdf>)

MnDOT Project Scope Guidance and Tools (<http://www.dot.state.mn.us/pm/scope.html>)

- Project Scoping Report
- Scoping Worksheets
- Project Charter, Transportation Project
- Risk Guidance and Tools
- Cost Estimating and Budget: Cost Guidance
- Project Management Plan Template
- Program Evaluation Document
- Planning Lists
- Project Planning Report
- Project Change Request Form
- Quality Scoping Document Timeline
- Early Notification Memo

FHWA and MnDOT Stewardship & Oversight Agreement

(<https://www.fhwa.dot.gov/federalaid/stewardship/agreements/mn.pdf>)

MnDOT State Aid Manual (<http://www.dot.state.mn.us/stateaid/manual.html>)

Federal Regulations and Guidelines

- Federal Register 23 CFR Parts 655 and 940
 - http://ops.fhwa.dot.gov/its_arch_imp/docs/20010108.pdf
 - http://ops.fhwa.dot.gov/its_arch_imp/docs/fta-pol.pdf
- US DOT RITA/ITS Joint Program Office (<http://www.its.dot.gov/>)
- FHWA ITS Architecture Implementation Program (http://www.ops.fhwa.dot.gov/its_arch_imp/)

Systems Engineering Resources

- FHWA Systems Engineering for ITS (<http://www.ops.fhwa.dot.gov/publications/seitsguide/index.htm>)
- Systems Engineering Guidebook for ITS (<http://www.fhwa.dot.gov/cadiv/segb/>)
- A Guide to Configuration Management for ITS (<https://rosap.ntl.bts.gov/view/dot/37371>)
- Model Systems Engineering Documents for Adaptive Signal Control Technology (ASCT) Systems (<http://ops.fhwa.dot.gov/publications/fhwahop11027/index.htm>)