



Traffic Forecasts & Financial Models

Online Training
Feb 22 – March 4, 2021



Online Training

16 Professional Development Hours



IRF PRACTITIONER COURSE Traffic Forecasts & Financial Models

**February 22 – March 4
Online Workshop**

Background

Correctly forecasting future traffic demand, and assessing the impacts that construction & rehabilitation projects may have on existing traffic volumes, is a cornerstone of sound financial modelling for road projects, especially those developed using Public Private Partnerships (PPPs).

This key function allows planners and engineers to dimension roadway facilities and anticipate likely impacts of new developments. However, traffic prediction modelling is a vast domain in which a wide range of models suited for specific purposes exist. Using a combination of models and case studies, this practitioner-oriented class will bridge the gap between traffic forecasting & financial modelling.

Why Online?

- Earn 16 Professional Development Hours
- Expert training by professionals for Professionals: access IRF's unique curriculum and lectures developed by world-class specialists
- Accelerated learning processes: get up to speed and gain new insights in less time and with no travel constraints
- Full access to learning materials and session recordings
- Small classrooms & scheduled One-on-One sessions with instructors
- Self-paced options available
- Interactive group projects and case studies
- Receive IRF Certification

Format

The lectures will be taught over a two-week period with live 2-hour on-line sessions held Monday through Thursday. Upon completion of the training program, the IRF will administer an on-line knowledge test. Participants with a score of 80% of the exam will be awarded with a certificate verifying their successful completion of the course.

Learning Objectives

The course is designed to support participants' learning objectives in the following areas:

- ✓ Understand the theory and techniques behind transportation economics and road demand estimating
- ✓ Learn how to prepare traffic forecasts
- ✓ Learn how to utilize risk analysis techniques and conduct scenario and sensitivity analysis
- ✓ Understand the basics of project finance and the various sources of funds
- ✓ Understand the drivers behind project cash flow forecasts for construction and road asset management
- ✓ Learn how to build a basic financial model
- ✓ Understand how to review, interpret, and analyse financial statements
- ✓ Explore and develop skills with practical exercises using real case studies

Target Audience

- National Road & Transport Agency Executives
- Highway Engineers and Managers
- Federal and State Road Safety Agencies
- Project Implementation Units
- Private Consultants & Contractors
- Infrastructure Finance Analysts and Investors

Instructors



Ing. Lucas M. Vozzi

Lucas is a civil engineer with a specialization in pedestrian and vehicle modelling and GIS databases developed in Argentina, Chile, Colombia, Ecuador, Perú and México. As a certified trainer, Lucas regularly delivers lectures and training course in popular simulation and modelling software, such as PTV Visum, Vissim, Viswalk and Vistro.



Eric Dean Cook, PE

Eric Dean Cook, PE is a Senior Advisor and Lead Trainer for the International Road Federation. Since 2008, Eric has served as a trainer, speaker, moderator, facilitator and fellow colleague at numerous IRF workshops, panels, forums and trade visits. Eric is the current Chair for the IRF Committee on Alternative Finance & Procurement. He formerly served as a Member of the FIDIC Procurement Policy Sub-Committee and is a former Chair of the American Council of Engineering Companies International Committee. In practice, he has worked as an engineer for the West Virginia Department of Highways and for the Louis Berger Group and has served as a Chief Financial Officer for the Kanawha Stone Company, a U.S. based heavy/highway contractor. Eric is a registered professional civil engineer, has successfully passed the FINRA Investment Banking Representative examination, and holds a BS Civil Engineering from Virginia Tech, an MBA from the University of Manchester, and a MS in Finance from Indiana University.

Schedule

Mondays, Tuesdays, Wednesdays & Thursdays (09:00 AM– 11:00 AM US EST)

| | |
|-------------------|---|
| Module 1 – Day 01 | <ul style="list-style-type: none">• Course introduction & Transportation Economics• Forecasting Travel demand• Traffic Studies |
| Module 1 – Day 02 | <ul style="list-style-type: none">• Macro modelling• Case study – practical exercises |
| Module 1 – Day 03 | <ul style="list-style-type: none">• Micro modelling• Case study – practical exercises |
| Module 2 – Day 04 | <ul style="list-style-type: none">• Basics of Project Finance• Risk management and sensitivity analysis• Understanding stakeholder financial perspectives |
| Module 2 – Day 05 | <ul style="list-style-type: none">• Financial Statements• Financial Analysis |
| Module 2 – Day 06 | <ul style="list-style-type: none">• Financial Forecasting and Models• Case-study with practical exercises |
| Module 3 – Day 07 | <ul style="list-style-type: none">• Putting it all together on an actual project – planning & construction• Case study |
| Module 3 – Day 08 | <ul style="list-style-type: none">• Putting it all together on an actual project – operations & management• Case study |

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International Road Federation

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