

**PROFILE**

Alberto De Marco is Associate Professor of Project Management at the Politecnico di Torino. Former visiting lecturer at the Civil and Environmental Engineering dept. at the Massachusetts Institute of Technology. Appointed professor at the Sino-Italian campus at the Tongji University in Shanghai. His research and consulting activities are in the areas of construction project management, project financing, facilities management, project risk management.

**EDUCATION**

2001-2003	Ph.D. in Construction Management from Politecnico di Torino, Torino (Italy) Thesis subject: Methods and systems to support engineering&construction project performance
1999	M.Sc. in Building Engineering from Politecnico di Torino. Magna cum laude grade.
1998 - 1999	Graduate school, Business Administration and Management courses from ENPC Ecole Nationale des Ponts et Chaussées, Paris (France)
1997	B.Sc. Civil Engineering from Politecnico di Torino
1994	High School Degree

**TEACHING ACTIVITIES**

2011 - today	International Training Center of the ILO – Master in Public Procurement Management for Sustainable Development – Contract Professor - Risk Management in Public Procurement of Infrastructure course
2010 - 2015	Tongji University, Shanghai, China – Appointed Professor at the Sino-Italian Campus - Construction of Industrial Facilities course University of Torino Business School – Appointed professor - Exec. Master in Real Estate Management, Project management course - Exec. Master in Facilities Management, Project management course MBA Collège des Ingénieurs Italy – Project Management course
2007- today	Politecnico di Torino, Dept. of Management and Production Engineering - M.Sc. Program in Engineering and Management, Project Management course - B.Sc. Logistics and Production Engineering Program, Industrial Facilities course - Supervisor to more than 30 M.Sc. theses Politecnico di Torino, PhD School - Complexity of Organizational Systems - System Dynamics - Supervisor of 5 PhD theses Università Cattolica del Sacro Cuore, ALTIS Business School – Appointed Professor - MBA Global Business and Sustainability, Project Management and Project Financing courses
2006	Massachusetts Institute of Technology, Cambridge, MA, US, Engineering Systems Division, Dept. Civil and Environmental Engineering – Visiting Professor – Project Management course
2002 – 2007	Free University of Bolzano-Bozen – Contract Professor B.Sc. Logistics and Production Engineering Program, Project Management course Politecnico di Torino, School of Industrial Engineering and Management – Lecturer M.Sc. Management, Project Management course Politecnico di Torino, Post Graduate Executive School – Contract Professor Real Estate & Property Management M.Eng. Program, Project Planning & Control Course Executive courses for manufacturing and service companies, public bodies, and professional associations

**RESEARCH**

Research interests	Project management: project organization, project financing, project monitoring and control, public-private partnerships, project risk management, engineering and contracting, facilities management, ICT for project management. Transportation and logistics management. Mobility systems management. Complex systems: system thinking, modeling and simulation of organizational systems, industrial systems performance, regional logistics and industrial development planning.
2007 – current date	Politecnico di Torino, Principal Investigator of the following research programs: - Sustainable Finance in Sustainable Energy, financial engineering of renewable energy investments - Information Systems for Engineering&Construction Management - Risk Management in Project Financing to procure constructed social facilities

- Smart City Finance&Technology Program, funded by Cassa Depositi e Prestiti
  - Urbelog: urban electronic logistics
  - PPP programs
- Politecnico di Torino, Team member in the following research programs:
- Digital Piemonte: Regional mobility and logistics, with MIT Center for Transportation and Logistics
  - Smart Operational Logistic Efficiency, with Telecom Italia Research lab
- 2004 - 2006 ISI International Scientific Institute Foundation, Lagrange Post-Doc Scholar  
Research subject: complexity science and system dynamics application for project and risk management in the engineering and construction industry
- 2005 Massachusetts Institute of Technology, Center for Technology Policy and Industrial Development – Visiting research fellow. Research topics: construction delivery systems & contract management, system dynamics for construction management

#### **INDUSTRY/CONSULTING EXPERIENCES**

- 2006 - 2009 FinProGest - Project Finance and Management, Torino – Member of the board, Strategy and financial planning, project financing, risk management, project planning and control
- 2001 - 2003 Concreto S.r.l., Project Management Services for Engineering&Construction, Torino – Vice-President
- 2000 - 2001 IdEst S.r.l., Engineering Services, Torino – Project Scheduler and Project Manager
- 1999 ADP Aéroports de Paris, Paris (France) – Assistant Project Manager

#### **LANGUAGE SKILLS**

- |         |                       |
|---------|-----------------------|
| Italian | Mother tongue speaker |
| English | Fluent                |
| French  | Fluent                |

#### **MISCELLANEA**

- Since 2010 Member of the System Dynamics Society  
Member of the Project Management Institute
- Since 2011 Paper reviewer in scholarly journals  
Project reviewer for the Italian Ministry for Education, University, and Research  
Member of the Portugal Agency for Assessment and Accreditation of Higher Education - A3ES
- Since 2016 Head of Departmental International Relations

#### **PUBLICATIONS**

- Author of 2 books and more than 80 publications on international journals and conference proceedings in construction management, PPP and project management topics. Some recent examples:
- De Marco, A. (2018). Project Management for Facility Constructions. A Guide for Engineers and Architects. 2<sup>nd</sup> edition. Springer, Heidelberg
- De Marco, A., Mangano, G. (2017). Risk factors influencing the debt leverage of project financing initiatives in the energy industry. *International Journal of Energy Sector Management*, 11(3): 444-451
- Narbaev, T., De Marco, A. (2017). Earned value and cost contingency management: A framework model for risk adjusted cost forecasting. *Journal of Modern Project Management*, 4(3): 12-19.
- De Marco, A., Mangano, G., Narbaev, T. (2017). The influence of risk on the equity share of build-operate-transfer projects, *Built Environment Project and Asset Management*, 7(1): 45-58
- Warburton, R. D. H., De Marco, A., Sciuto, F. (2017). Earned schedule formulation using nonlinear cost estimates at completion. *Journal of Modern Project Management*, 5(1): 75-81
- De Marco, A., Mangano, G., Michelucci, F.V., Zenezini, G. (2016). Using the private finance initiative for energy efficiency projects at the urban scale, *International Journal of Energy Sector Management*, 10(1), 99-117
- De Marco, A., Rafele, C., Thaheem, M.J. (2016). Dynamic Management of Risk Contingency in Complex Design-Build Projects. *Journal of Construction Engineering and Management*, 142(2), 1-10
- Arditi, D., Mangano, G., De Marco, A. (2015). Assessing the Smartness of Buildings. *Facilities*, 33(9/10), 553-572.
- P. Neirotti, A. De Marco, A.C. Cagliano, G. Mangano, F. Scorrano (2014). Current trends in Smart City initiatives: some stylised facts. *Cities*, 38, 25-36
- Narbaev, T., De Marco, A. (2014). An earned schedule-based regression model to improve cost estimate at completion. *International Journal of Project Management*, 32(6), 1007-1018
- De Marco A., Narbaev T. (2013). Earned Value-Based Performance Monitoring of Facility Construction Projects. *Journal Of Facilities Management*, 11(1), 69-80