

Virtual Learning Lab Probabilistic Investment Analysis

In the virtual learning lab Probabilistic Investment Analysis you will learn:

- the benefits of a probabilistic approach for investment analysis,
- a range of methodologies and innovative tools to execute such an analysis pragmatically,
- how to incorporate the results in decision making.

Topics include probability theory, uncertainty assessment, tornados, decision trees, Monte Carlo simulation and various practical methods to easily generate a better understanding of the uncertainty in the investment decision metrics. Also included is a treatment of novel analytic methods.

The broader context and industry perspectives are provided by means of virtual lectures. How are probabilistic methods used in industry? Where does this fit in the overall evaluation process? How should analysts interact with decision makers? How can change be implemented to improve project evaluation practices?

Industry experts involved in this VLL are Prof. Reidar Bratvold (University of Stavanger), Frank Koch (ex-Chevron), Thijs Koeling and Henk Krijnen (both ex-Shell).

Schedule: 1 October – 17 December; total time to be spent by participants over this period is ~ 20 hrs, list price € 950 (discounts may apply, see website).

*A **Virtual Learning Lab** (VLL) is a learning program consisting of online course materials, exercises, pre-programmed virtual lectures and group discussions that allow participants to gain a deep understanding of a specific field over a period of 2-3 months. The online material is offered in four blocks of 2 to 4 weeks allowing flexibility on the part of participants. The combination of gradual, step by step internalisation of knowledge, exercises and interaction with other participants and industry experts make this concept particularly powerful. The advantages over traditional classroom courses include a highly effective learning mode, easy integration with work duties, low costs and a zero carbon footprint.*

Atlantic Version
Schedule Q4 2018 on next page
More information: navincerta.com/vllpia

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Course Modules	Self-Study Components "Me time" Format (training videos, lessons, individual assignments, quizzes)	Dates Live Sessions	Live Components "We time" Format 60 min live video conferences
Mon, Oct 1, 18 PART 1 Basics	1. Why bother 2. Statistical concepts 3. Range and probability assessment <i>Max 3 hours "me time" @ own pace</i>	Tue, Oct 2, 18 8 AM PDT, 5 PM CET Tue, Oct 16, 18 8 AM PDT, 5 PM CET	<div style="border: 1px solid black; background-color: #FFD700; padding: 5px; margin-bottom: 10px;"> Henk Krijnen: Objectives Investment decision making and risk </div> <p style="text-align: center;">1 - 2 hours "we time"</p> <div style="border: 1px solid black; background-color: #FFD700; padding: 5px; margin-top: 10px;"> Optional Class Check-In Probability theory </div>
Mon, Oct 22, 18 PART 2 Tools	4. Tornado 5. Decision trees 6. Monte Carlo simulation demystified <i>Max 3 hours "me time" @ own pace</i>	Thu, Oct 25, 18 8 AM PDT, 5 PM CET Tue, Nov 6, 18 8 AM PDT, 5 PM CET	<div style="border: 1px solid black; background-color: #FFD700; padding: 5px; margin-bottom: 10px;"> Reidar Bratvold: The state of the application of probabilistic methods in industry </div> <p style="text-align: center;">1 - 2 hours "we time"</p> <div style="border: 1px solid black; background-color: #FFD700; padding: 5px; margin-top: 10px;"> Optional Class Check-In Decision trees </div>
Mon, Nov 12, 18 PART 3 Analysis	7. Analytic methods 8. Tornado based probabilistics 9. Decision tree based probabilistics <i>Max 4 hours "me time" @ own pace</i>	Mon, Nov 12, 18 8 AM PDT, 5 PM CET Tue, Nov 27, 18 8 AM PDT, 5 PM CET	<div style="border: 1px solid black; background-color: #FFD700; padding: 5px; margin-bottom: 10px;"> Reidar Bratvold: Getting to grips with uncertainty </div> <p style="text-align: center;">1 - 2 hours "we time"</p> <div style="border: 1px solid black; background-color: #FFD700; padding: 5px; margin-top: 10px;"> Optional Class Check-In Analytical approaches </div>
Mon, Dec 3, 18 PART 4 Decision making	10. Implementation and Communication <i>Max 1 hour "me time" @ own pace</i>	Tue, Dec 4, 18 8 AM PDT, 5 PM CET Thu, Dec 13, 18 8 AM PDT, 5 PM CET Mon, Dec 17, 18 8 AM PDT, 5 PM CET	<div style="border: 1px solid black; background-color: #FFD700; padding: 5px; margin-bottom: 10px;"> Frank Koch Implementing change when introducing new methodologies </div> <p style="text-align: center;">3 hours "we time"</p> <div style="border: 1px solid black; background-color: #FFD700; padding: 5px; margin-top: 10px;"> Frank Koch Engaging with senior leaders </div> <div style="border: 1px solid black; background-color: #FFD700; padding: 5px; margin-top: 10px;"> Thijs Koeling: Close Out </div>