# High-Technology Entrepreneurship

**B7677-001 --- Warren 209 --- Spring 2019**

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| 9-10    | Behavioral Economics of Incentives & Retention – Best Practices | 2/14; 6:00 – 9:00 p.m. |
| 11-12   | New Venture Branding & Value Proposition: lecture & in-class app. **Guest: Gary Singer, Chief Strategy Officer, Kobre & Kim, LLC (Partner Emeritus and former Global CMO, AT Kearney, Inc.)** | 2/28; 6:00 – 9:00 p.m. |
| 13-14   | Innovation through Structured Creativity: lecture & in-class app. **Guest: Prof. Rom Schrift, CBS Alumnus & Wharton Professor** | 3/7; 6:00 – 9:00 p.m. |
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| 15      | O Brave New World of Apps **Guests: Greg Marsh, Founder & CEO, KeyMe Richard Smullen, Founder & CEO, Pypestream** | 3/14; 6:00 – 7:25 p.m. |
| 16      | How to Present Your Business Plan | 3/14; 7:35 – 9:00 p.m. |
| 17-18   | Review of New Ventures - Teams meet w. Prof. | TBD |
| 19      | Customer Lifetime Value (CLV) | 3/28; 6:00 – 7:25 p.m. |
| 20      | Behavioral Economics of Incentives & Retention – Team Presentations | 3/28; 7:35 – 9:00 p.m. |
| 21-22   | Review of Venture Presentations | 4/4; 6:00 – 9:00 p.m. |
| 23-24   | Presentations of New Venture Ideas to VC Panel **VC Panelists: Dr. Philippe Chambon, Malcolm Elvey, Dorin Miller, & Richard Witten** | 4/11; 6:00 – **9:30** p.m. |
|         | **Module III: SELL** |             |
1. COURSE PERSPECTIVE

Ongoing dramatic changes in the technology and business environment have fundamental implications for business and marketing strategies in general as well as for the development and commercialization of high-technology products and services in particular. Furthermore, the world of technology provides exciting new business opportunities. In contrast to mature and more static markets, in which the likelihood that a small new entrant will compete effectively with established leaders is rather low, emerging high-technology markets offer opportunities for innovative entrepreneurial companies, as well as for large established companies, to become market leaders. However, it is usually safe to assume that any promising opportunity is pursued by multiple aspiring entrepreneurs, often with equally promising technologies. Accordingly, in many (perhaps most) cases, the winner is determined based not necessarily on its superior technology but rather on the strength of its business model. I use the term “business model” broadly to include the product/service and customer definition, the revenue model, whether and how the company chooses to create partnerships and co-opetitions, customer acquisition and retention engines, and other components of the company’s strategy and marketing.

Although formal knowledge creation may have lagged behind business innovation, this course provides some structure and offers practical guidelines for the development of strategy and marketing programs for entrepreneurial high-technology firms. While the three C’s and four P’s are important in any type of marketing, high- or low-tech, these traditional frameworks do not highlight the key factors that make high-technology entrepreneurship, strategy, and marketing different. Furthermore, we need to understand the key decisions and challenges faced by companies and individuals starting a new high-tech venture.

Accordingly, there was a need to develop a framework from the ground up. Specifically, the framework for this course has been developed on the basis of (1) durable economics and marketing principles; (2) numerous interviews with technology and business leaders from New York, Silicon Valley, and elsewhere, including CEOs of many startups as well as larger, established firms; and (3) books, articles, analyst reviews, and research. The framework is based on an integration and analysis of repeated themes in the issues, market conditions, actions, and outcomes that companies, executives, and entrepreneurs are experiencing in business environments related to high-technology.

In sum, this course provides an analytical framework and tools for developing strategic business models and business plans for new high-technology ventures. The course will emphasize a hands-on approach throughout and is highly relevant to startups and to students who wish to become high-technology entrepreneurs. It is also very relevant to an opportunity analysis and new venture formulation and provides students with an opportunity to present their new venture (company or idea) to a panel of senior venture capitalists and angel investors.

The course was developed and is taught by Professor Ran Kivetz (see bio in Appendix A).
2. COURSE OBJECTIVES

Key objectives of the course are as follows:

- Understanding the major forces shaping and differentiating high-technology strategy and marketing;
- Acquiring conceptual frameworks and analytical tools needed for developing and changing business models in fast-paced technology markets;
- Gaining hands-on practice in looking for and developing opportunities in rapidly changing markets;
- Developing tools for bringing to market high-tech products and services, such as new product development processes, “versioning” and branding, customer retention, pricing, and more;
- Developing habits of orderly, analytical thinking and skill in reporting conclusions and proposals effectively in written and oral form;
- Building detailed and creative (i.e., both original and useful) ventures from the ground up that fill a gap in existing markets and effectively presenting these ideas to industry professionals and investors;
- Practicing teamwork.

3. THE STRUCTURE OF THE COURSE

The course’s first module seeks to understand whether and how high-technology strategy and marketing is different from “conventional” strategy and marketing. This module introduces an analytical framework that highlights some of the unique aspects of high-tech entrepreneurship, along with its practical implications for businesses and startups. We discuss such topics as the “open source movement” and the unique challenges of product adoption in a network economy. We also explore the new venture ideation process and the meaning and challenges of being an entrepreneur in the ever-changing high-technology markets.

The next major part of the course takes a closer look at several important themes of the digital economy. As part of this module, we cover topics such as the technology adoption life cycle, externalities and interdependencies in the value chain, and related implications for partnerships and standards.

The next part of the course examines the four P’s (and a new “P” --“Experience”) in the context of high-technology marketing. We examine “versioning,” branding, and positioning; pricing information goods; loyalty and incentives; and other relevant topics integral for building a successful venture.

Throughout the course, students will work in small teams to put the concepts they have absorbed to practice by building, developing, and refining their own new venture (idea or company). The final
section—and, indeed, the ultimate goal of this course—peeks at what may be “your future” by giving student teams the opportunity to present their new venture to a panel of senior angel investors and venture capitalists.

The course uses a combination of current examples, lecture material, readings, “live” as well as written cases (from Columbia and Harvard), discussions with industry leaders, and actual development tasks. Guest speakers who have confirmed their participation include (see bios in Appendix B):

- **Dr. Philippe Chambon**, MD, Ph.D., Managing Director, New Leaf Venture Partners, LLC.
- **Dr. Santanu Das**, Advisor to Startups; Founder & Former CEO, TranSwitch
- **Malcolm Elvey**, Founder & Principal Partner, The Elvey Partnership, Collaborative Capital 1, LP.
- **Greg Marsh**, Founder & CEO, KeyMe
- **Dorin Miller**, Entrepreneurial technology investor and advisor
- **Dr. Howard Morgan**, Ph.D., Partner, First Round Capital
- **Prof. Rom Schrift**, Ph.D., CBS Alumnus & Wharton Professor
- **Eli Singer**, Chief Executive Officer & Co-founder, Jethro
- **Gary Singer**, Chief Strategy Officer, Kobre & Kim, LLC (Partner Emeritus and former Global CMO, AT Kearney, Inc.)
- **Richard Smullen**, Founder & CEO, Pypestream
- **Teddie Wardi**, Principal, Insight Venture Partners
- **Richard Witten**, Senior Advisor to the President of Columbia University
4. COURSE SCHEDULE AND READINGS

***Make sure to prepare the assignments for the first day of class***

Module I: INVENT

Session 1: Course Overview --- The RIDE Model
1/10; 6:00 – 7:25 p.m.

Readings
- This course syllabus.

Assignment: Prepare the following questions for class discussion:
1. Do you agree with Moriarty and Kosnik’s view of the key differences in high-tech marketing?
2. What do the leading high-technology firms have in common?
3. What forces underlie the Technology Paradox? What are the strategic and marketing implications of Moore’s Law and the “new” economics of information?

Session 2: New Venture Ideation and B-Plan Preparation
1/10; 7:35 – 9:00 p.m.

Readings

Read these sources:
- How To Write A Great Business Plan
- One Pager Executive Summary

Skim these B-plans (past winners of this course’s B-plan competition and the Lang Fund):
- Expert Bee
- MobyGames

Assignment: Think about the following questions for class discussion:
1. How could you come up with a great idea for a (profitable) new venture?
2. What are the elements of a great business plan (a B-plan that helps raise capital and launch a profitable new venture)?
Sessions 3 & 4: Filtering of New Venture Ideas with Leading High-Tech Entrepreneurs
1/17; 6:00 – 9:00 p.m.
Warren 311

Guests:
Dr. Santanu Das, Board member; Philanthropist; Founder & Former CEO, TranSwitch
Eli Singer, Chief Executive Officer & Co-founder, Jethro

In this session, you will present your preliminary venture ideas. The guest visitors will serve as a panel of “judges” or “advisors” who will hear your preliminary (high level) venture ideas. Together with Professor Kivetz and your classmates, the guests will provide feedback on, and a ranking of, the proposed ventures in terms of feasibility, potential, direction, and so-forth. These input and rankings will be used to help determine which ventures will be pursued and developed in the course.

Time permitting, we will also discuss the “The Nuts and Bolts of High-Tech Entrepreneurship” and the guest visitors’ accomplishments, experiences, and insights with regard to high-technology entrepreneurship.

You will need to have a preliminary, high-level new venture idea by start of class January 17th, 2019.
**Session 5: Segmentation & Virgin America (Columbia CaseWorks Case)**
1/24; 6:00 – 7:25 p.m.
**Warren 311**

You will need to have your actual new venture idea (for the course) and a team (if any) formed by January 24th, 2019.

**Reading:**
Columbia CaseWorks: [Virgin America Airlines](#) -- Spinning Customer Satisfaction into Gold

**Assignment:**
Prepare the following study questions for class discussion:

1. Who is Virgin America’s target audience and how can they be reached?
2. How would you articulate a position statement and value proposition for the Virgin America brand?
3. Is Virgin America’s current strategy sustainable? What should Virgin America do to increase its profitability?
4. What are the arguments for and against Virgin America scaling up its operations?
Session 6: Versioning & Pricing Information Goods using Behavioral Economics
1/24; 7:35 – 9:00 p.m.
Warren 311

Readings:

Assignment: Prepare the following study questions for class discussion:
1. Which segmentation approaches are meaningful in high technology markets?
2. How does Versioning relate to the “5 Ps” -- Price, Product, Promotion, Place, & Experience?
3. How should you price at each stage of the technology diffusion cycle?
4. When should a product be free?

Optional Background Readings:


Session 7: Diffusion of Innovations, Crossing the Chasm, & TiVo (HBS Case)
2/7; 6:00 – 7:25 p.m.

Case

Readings

Assignment: Prepare the following study questions for class discussion:
1. Formulate a hypothesis about the limited success and adoption of TiVo.
2. What are the underlying assumptions and/or hypotheses of TiVo’s management regarding the diffusion of TiVo? How does this reflect on the research they conduct?
3. Analyze the situation from the consumer’s standpoint. What is TiVo? What factors facilitate its adoption? What factors make adoption difficult? Who is TiVo best suited for?
4. What “crossing the chasm” strategy would you recommend for TiVo? How should TiVo position itself and whom should they target first?

In-class team presentations of new venture STP.

Session 8: Metcalfe’s Law, the Network Economy, & In-class Application
2/7; 7:35 – 9:00 p.m.

Readings
- https://stratechery.com/2015/aggregation-theory/
Sessions 9 & 10: Behavioral Economics of Incentives & Retention – Best Practices

2/14; 6:00 – 9:00 p.m.

In this session, we will cover the best practices and behavioral economics principles of customer retention and incentives.

Work on (team) incentive/retention program.

Please make sure that each team has at least one laptop.

Please have one of your team members upload your team incentive/retention program (including your team members’ names) to the assignment dropbox on Canvas by March 27 at 12 noon.

Readings:


“Why Cash Fails,” SalesForceXP.


Optional Background Readings:


Sessions 11 - 12: New Venture Branding & Value Proposition: Lecture & In-class Application
2/28; 6:00 – 9:00 p.m.

Guest: Gary Singer, Chief Strategy Officer, Kobre & Kim, LLC (Partner Emeritus and former Global CMO, AT Kearney, Inc.)

In these sessions, we will host a leading branding and top-line growth expert, Gary Singer, Chief Strategy Officer, Kobre & Kim LLC. We will discuss the topic of branding and how meaningfully distinctive brands facilitate in-market success, particularly for new ventures. We will also work together on building your venture’s value proposition.

Readings:
- Gary Singer’s Bio (see end of this syllabus)
- Keller, Kevin L. and Donald R. Lehmann, “How do Brands Create Value.” This article provides a framework for understanding the development and impact of brand equity.

Exercise
New Venture Value Proposition

Assignment: This is an assignment that you should complete with your new venture team out of class. Prepare a PowerPoint (5-minute) presentation that will cover the Who, What, Why, and How of your new venture’s value proposition. The purpose of this assignment is to put yourself into the head of your key prospect(s). Therefore you should thoughtfully and specifically define WHO is it that you are trying to target, WHAT is it that you uniquely offer them, WHY should they believe you and HOW are you going to effectively deliver the WHAT and the HOW to the WHO. A framework and guideline for preparing this assignment is uploaded on our class website (“New Venture Value Proposition_Exercise.pdf”). This exercise should help you advance your new venture.

Please have one of your team members upload your presentation (including your team members’ names) to the assignment dropbox on Canvas by Wednesday, February 27th no later than 10:00 p.m. You will present to Gary Singer, who will provide feedback on your presentations and will discuss the art and science of defining and mobilizing a crisp and impactful value proposition.
**Sessions 13-14: Innovation through Structured Creativity: Lecture & In-class Application**

3/7; 6:00 – 9:00 p.m.

**Guest:** *Prof. Rom Schrift*, CBS Alumnus and Wharton Professor of Marketing

**Readings**

Boyd, Drew and Jacob Goldenberg, “Inside the Box: A Proven System of Creativity for Breakthrough Results,” 2014, [Chapter 2, pp. 38-66](#).

In these sessions, we will host a leading expert on creativity (and a former student of Prof. Kivetz), Prof. Rom Schrift, from Wharton. We will learn a framework and tools for engaging in structured creativity. Using the guidance of Professors Kivetz and Schrift, you will work in-class on applying the structured creativity approach to building your new venture and its products, services, and solutions.
Session 15: O Brave New World of Apps
3/14; 6:00 – 7:25 p.m.

Guests:
Greg Marsh, Founder & CEO, KeyMe
Richard Smullen, Founder & CEO, Pypestream

Session 16: How to Present your Business Plan
3/14; 7:35 – 9:00 p.m.

Lecture, in-class team work, and discussion with Professor Kivetz

Sessions 17 & 18: Review of New Ventures: Individual Teams meet with Prof. Kivetz

Date & Times: TBD
Session 19: Customer Lifetime Value (CLV)

3/28; 6:00 – 7:25 p.m.

In this session, we will discuss customer acquisition and retention with a special emphasis on the important concept of customer lifetime value (CLV), which you will find useful for your new venture.

Optional Background Readings:
http://www.foentrepreneurs.com/saas-economics-1/
http://www.foentrepreneurs.com/saas-economics-2/

Donald R. Lehmann, “What’s a Customer Worth?” Columbia CaseWorks, Columbia University Business School. This reading provides a framework for understanding and determining the value of a customer to a firm.

Gupta, Sunil and Donald R. Lehmann, “Customers as Assets,” Journal of Interactive Marketing, Winter 2002, 9-24. The authors introduce the concepts of customer acquisition and retention and explain how to measure and use lifetime value for managerial decision-making.

Session 20: Behavioral Economics of Incentives & Retention – Team Presentations

3/28; 7:35 – 9:00 p.m.

Team presentations of incentive/retention programs.

Please have one of your team members upload your team incentive/retention program (including your team members’ names) to the assignment dropbox on Canvas by March 27 at 12 noon.
**Sessions 21 - 22: Review of Venture Presentations**

4/4; 6:00 – 9:00 p.m.

In-class review and analysis of venture presentations

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**Sessions 23 - 24: Team Presentations of New Venture Ideas (Last Class)**

4/11; 6:00 – 9:30 p.m.

**Guests (VC Panelists):**

1. Dr. Philippe Chambon, MD, Ph.D., Managing Director, New Leaf Venture Partners, LLC.
2. Malcom Elvey, Founder & Principal Partner, The Elvey Partnership, Collaborative Capital 1, LP.
3. Dorin Miller, Entrepreneurial technology investor and advisor
4. Richard Witten, Senior Advisor to the President of Columbia University

Team presentations of new venture ideas; each group is to give a 10 minute presentation (oral and visual) that will be followed by 5 minutes of feedback from the panelists. (Note: There may be changes to these timetables.)

Further details and a schedule of presentations will be announced on the course website. At the end of the presentations, the class and the panelists will (separately) choose their top three ventures. We will conclude with a 15-minute Q & A with the panel guests.

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**Please have one of your team members upload your final presentation (including your team members’ names) to the assignment dropbox on Canvas by Wednesday, April 10th no later than 10:00 p.m.**

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5. COURSE PERFORMANCE MEASURES AND FEEDBACK

This course is designed to be a challenging and fun course. If you wish to take the course, make sure you have the time to prepare two sessions/cases per week as well as the demanding deliverables below. Performance evaluation will be based on a new venture proposal (35% if it’s a team venture, 45% if individual), new venture team members evaluation of each other, if the venture team has more than one member (10%), individual class participation (45%), and a team incentive/retention program exercise (10%; to be discussed in class).

5.A. New Venture Proposal

The main course assignment is to propose a new high-technology venture. This assignment should be either individually or in groups of no more than three students of your own choosing. Although you have freedom to propose any new (high-tech) venture that is currently of interest to you or that you may start after graduation, Professor Kivetz’s approval for the new venture idea is required. Think carefully about your idea; it should be feasible with a clear as possible “path-to-profitability.” You are to develop business plan PPT deck that includes a marketing plan (i.e., situation analysis, objectives and strategy, and marketing programs; additional guidance will be provided in class) and a financial plan, and also analyzes the proposed venture vis-à-vis the frameworks and concepts discussed in class. At the end of the course, each individual or group will pitch its new venture idea to a panel of industry experts, who will provide feedback and suggestions (and, who knows, maybe funding…).

If you are having trouble proposing a new venture, please talk with Professor Kivetz.

You will need to have a preliminary, high-level new venture idea by start of class January 17th, 2019.

You will need to have your actual new venture idea (for the course) and a team formed by start of class January 24th, 2019.

5.B. Class Participation

I will come to class each day with a carefully thought out teaching plan. The plan will try to achieve a logical progression through the key issues in the case or reading materials. To this end, specific questions will have been prepared to lead the discussion. However, it is important to appreciate that the students in the class are co-producers of the class discussions. You will be expected to have completed the readings prior to each class and prepared the assignment questions. It is also crucial that you listen carefully to the questions that are posed and that the class collectively attempt to answer them. For this to happen, class members need to listen carefully to one another and to build on or critique prior comments. Class members should try to resist the temptation to jump to topics that are not specifically open for discussion. When that happens, it is the responsibility of the class and myself to bring the discussion back on track. The discussion should be a conversation in which all participants recognize that they have an
obligation to advance our understanding of the issue at hand. Your contribution to this learning process will be appraised in addition to the content of what you contribute.

Some of the specific things that have an impact on effective class participation and on which you will be graded include:

1. Is the participant a good listener?
2. Are the points that are made relevant to the discussion? Are they linked to the comments of others and to the themes that the class is exploring together?
3. Does the speaker sustain a line of argument or point of view through a significant part of the class session, or is it an isolated comment?
4. Do the comments add to our understanding of the situation? Are they incisive? Do they cut to the core of the problem? Comments that simply repeat case facts get little credit.
5. Is there a willingness to challenge the ideas that are being expressed?
6. Is there a willingness to test new ideas, or are all comments “safe?” (For example, repetition of case facts without analysis and conclusions, or a comment already made by someone else.)
7. Does the participant interact with other class members?
8. Does the participant integrate material from past classes or the readings where appropriate? Do the comments reflect cumulative learning over the course, or does the participant merely consider each case in isolation?

If you are having any difficulty participating, please discuss this with Professor Kivetz.

5.C. Incentive/Retention Program Exercise
An incentive/retention program exercise will be given in class. This is an exercise that will be done in your new venture teams. You will create a proposal for an incentive/retention program that can facilitate your customer acquisition and/or customer retention. Some teams will present their work in class. (More details will be given in class.)
6. EXPECTATIONS REGARDING CLASS BEHAVIOR AND COURSE NORMS

1. Because a case- and discussion-oriented course relies on class participation for its success, attendance at every class is considered extremely important. Please schedule other activities (e.g., job interviews) at times other than when High-Technology Marketing and Entrepreneurship meets. Missing classes will adversely affect your grade.

2. If you do miss a class, it is your responsibility to find out from your classmates what materials were covered, what additional assignments were made, and what items may have been distributed in class.

3. *Please arrive on time and stay from beginning to end.* It is extremely disruptive to your classmates if you arrive late or leave while class is in session.

4. I expect you to be prepared for every class. Since I frequently call on students whose hands are not raised, you should let me know before the start of class if some emergency has made it impossible for you to prepare adequately for that class.

5. Given the importance of class participation, I will learn your names as quickly as possible. To facilitate that, please use a name card during every class.

6. It goes without saying that I consider the Columbia Business School Code of Integrity to be an extremely important part of the educational system. Discussion with your classmates is acceptable and encouraged for purposes of general case preparation. Moreover, it is obviously required for group assignments. However, I expect you to present in class only analyses which you participated in preparing. That is, reading from notes simply handed to you by a study group member or anyone else violates the Code of Integrity. Similarly, it is considered to be a violation of the Code of Integrity for students to use analyses of cases posted to electronic bulletin boards, formal or informal “virtual study groups,” and so-forth. The reasons for this are threefold. First, class discussion is enriched if there is variety in points of view. This is diminished if a majority of students come to class with the same case analysis. Second, a great deal of learning occurs in the process of preparing the case and/or study questions. Third, I want to grade your class performance.
Appendix A: Professor Bio

Professor Ran Kivetz, Ph.D., Philip H. Geier Professor, Columbia University Business School.

Professor Ran Kivetz is a tenured professor at Columbia University Business School, where he holds the Philip H. Geier endowed chair. Professor Kivetz is a leading expert in the areas of behavioral economics, decision-making, marketing, customer behavior, incentives, and innovation. His experience in these fields includes over twenty years of research, management, consulting, and teaching. His latest research explores political science and political psychology through the lens of behavioral economics and decision research.

Professor Kivetz’s research has won many prestigious awards, including multiple “Best Paper” awards, being a recipient of the New York Times annual “Best Idea” award, and being ranked as the third most prolific scholar in his field during 1982–2006. Professor Kivetz’s research has been covered by major print and broadcast media (e.g., ABC, The Atlantic, BBC, Bloomberg Businessweek, CNN, Chicago Tribune, FOX News, The New York Times, SmartMoney, Time, U.S. News & World Report, Washington Post, & WSJ).

Professor Kivetz’s teaching has won the Columbia Business School Dean’s Award for Innovation in the Curriculum. Some of the courses that Professor Kivetz has developed and taught include High-Technology Entrepreneurship, Marketing of Nation, Marketing Strategy, and Bridging Behavioral Economics and Marketing Science.

Professor Kivetz has advised Fortune 500 companies, government agencies, and entrepreneurial ventures from a variety of industries. He has worked with organizations on strategy, decision-making, marketing, innovation, branding, customer behavior, incentive systems, marketing research, and intellectual property.

Professor Kivetz earned a Ph.D. in business and an M.A. in psychology from Stanford University and a B.A. in economics and psychology from Tel Aviv University.
Appendix B: Guest Speakers’ Bios

Dr. Philippe Chambon, MD, Ph.D., Managing Director, New Leaf Venture Partners, LLC.

Philippe Chambon, MD, PhD, is a Managing Director and founder of New Leaf Venture Partners. He concentrates on Information Convergence and Biopharmaceutical investments. He is currently on the board of Karos Pharmaceuticals, QPID Health, Treato, Ltd., Truveris, Inc. and VaxInnate Corporation. His career in Venture Capital started in 1995 when he joined The Sprout Group. Prior to that, he served as Manager in the Healthcare Practice of The Boston Consulting Group from 1993 to 1995. From 1987 to 1993, he was an executive with Sandoz Pharmaceutical, where he led strategic product development, portfolio management and pre-marketing activities in his capacity as Executive Director of New Product Management. Philippe did graduate research in molecular immunology at The Pasteur Institute and earned a M.D., Ph.D. from the University of Paris. Philippe also has an M.B.A. from Columbia University in New York.
Dr. Santanu Das, Advisor to Startups; Founder & Former CEO, TranSwitch

Santanu Das is a founder of TranSwitch Corporation in Shelton, Conn., which started operation in 1989, and was the president and CEO of the company.

Prior to TranSwitch Corporation, he held various positions, including president of Spectrum Digital Corporation, a telecommunications equipment company, where he worked from 1986 through August of 1988. Before joining Spectrum, he held various executive positions, including director, Applied Technology Division of ITT Corporation’s Advanced Technology Center in Shelton, Conn.

He received his B.E. and M.E. degrees in Electronics and Telecommunications Engineering from Jadavpur University, Calcutta, India, in 1965 and 1968, respectively, and his doctor of science (D.Sc) in electrical engineering from Washington University in St. Louis.

Professional Societies of which Dr. Das is a member are Institute of Electrical and Electronics Engineers (IEEE), and ACM., U.S.A.

He has authored and/or co-authored more than 25 papers in different journals, magazines, and conference proceedings. He is a frequent speaker at industry forums and has been invited to speak at major technical and non-technical functions and conferences. Dr. Das has been granted a number of patents in his field.

On April 5, 2000, Dr. Das received the “Alumni Achievement Award” from Washington University School of Engineering & Applied Science. This award recognized Dr. Das’ contributions to the advancement of the telecommunications and data communications industry, his entrepreneurial spirit, and his commitment to help others.

In May of 2001, Dr. Das was elected to the board of trustees of Washington University in St. Louis. In his capacity as trustee, he serves as a member of the Research-Graduate Affairs Committee, as well as the Student Affairs Committee of that institution.

On Oct. 27, 2001, Dr. Das was honored by the Alumni Board of Governors of Washington University when he was presented the “Distinguished Alumni Award,” in recognition of outstanding achievements and services that reflect honor upon Washington University.

On June 15, 2000, Dr. Das was awarded the Ernst & Young “Entrepreneur of the Year Award” for the Southwest Connecticut/New York Hudson Valley area for the telecommunications industry. In November of 2000, Dr. Das went on to be named a finalist for the 2000 Ernst & Young “Entrepreneur of the Year” in the Technology/Communications area.

Dr. Das is active in financially supporting as well as fund-raising for a number of non-profit organizations.

He and his family have founded two foundations — one in India, and one in the United States — to support various causes.
Malcolm Elvey, Founder & Principal Partner, The Elvey Partnership, Collaborative Capital 1, LP.

A seasoned entrepreneur with a strong global track record, Malcolm Elvey brings to his clients a rational, results-driven approach in building the fundamentals for success: business strategy, financing and company structure. His pragmatism is the result of nearly four decades of entrepreneurial and academic experience in over 10 countries.

As senior executive of several companies in the U.S. and abroad, Elvey has demonstrated his vision in leveraging technology to gain a competitive advantage. He has used computers and technology to drive the success of numerous pioneering business concepts, including warehouse clubs, off-price retailing and industry consolidations. His strengths are in astute analysis and evaluation of concepts, coupled with the ability to introduce and mentor exceptional management. In his consultancy, Elvey taps a wide network of powerful domestic and international contacts--essential in today's global economy.

Highlights from Elvey's international business career include:
- Serving on the Boards of Directors at The Children’s Place, Inc. (Nasdaq: PLCE), a leading specialty retailer of high quality, value-priced apparel and accessories for children; and PowerHouse Technologies Group (PWHT), the developer of MIGO software (www.migosoftware.com)
- Founder and Vice-Chairman of QLIMO, a NY ground transportation company.
- Founder and former Chairman of Esquire Communications Ltd., the nation's largest court reporting and legal services company.
- Involved with numerous Internet companies as either Founder, Director, or Advisor.
- From 1985-87, Director of ADT Ltd., a publicly traded international service industry conglomerate, that is today part of TYCO.
- Director and a Founder of SACCA (South African Chamber of Commerce in America)
- CEO of Metro Cash and Carry from 1970-75, a publicly held South African company that today is a $7 billion global company operating 400 warehouses in 13 countries. In 1976 opened Jetro Cash & Carry in Brooklyn which was the precursor of the warehouse club phenomenon in the US.
- Elvey is a Chartered Accountant and holds an MBA degree from the University of Cape Town, South Africa, where he was also a member of the faculty in finance and business policy.

Elvey has been active in the leadership of The Young President's Organization and the World President's Organization since 1973. He is an active supporter of various philanthropic organizations, Director and former Chairman of the Finance Committee of The Friends of Bezalel, Israel's National Academy of Arts & Design. An avid squash player, Elvey served as Chairman of the US Masters Squash Teams in 1997 at the Maccabiah Games in Israel.
Greg Marsh, Founder & CEO, KeyMe

After seeing his wife get locked out several times, Greg thought the locksmith industry was broken. He dropped out of Columbia Business School to found KeyMe. Before attending business school, Greg served as Director of Finance for Aperia Technologies, an early stage efficiency technology company for the commercial trucking industry. Aperia is currently scaling rapidly. Prior to joining Aperia, Greg was an Associate at CM Capital Advisors where he was responsible investment sourcing, portfolio construction, and risk management for $1B+ portfolio. Before CM, Greg was an Analyst at Sterling Stamos, an $8B private investment firm, where he focused on hedge fund analytics. Greg holds a BA in Mathematics and Economics from UC Santa Barbara and is a CFA charterholder.
Dorin Miller, Entrepreneurial technology investor and advisor

Dorin Miller has over 25 years of experience as a technology investor, executive and entrepreneur.

Currently Dorin is strategy and marketing advisor to several startup companies. From 2001 until 2013 Dorin was an active venture partner with Cedar Fund, a venture capital firm investing in early stage Israel-related technology startups. Dorin leveraged her experience building and leading U.S. tech marketing companies as a board member on CloudLock (acquired by Cisco,) and WebLayers, and led an active role in the successful investments and marketing of notable Cedar portfolio companies including Onaro (sold to NetApp,) WebCollage (sold to Answers.Com,) Guardium (sold to IBM,) and Appilog (sold to Mercury Interactive.)

Prior to joining Cedar Fund, Ms. Miller was VP of Marketing and New Business for Memco Software (Nasdaq: MEMCF) a successful Israeli software startup providing enterprise information security solutions. Before Memco, Ms. Miller spent five years as a senior IT consultant working for major Wall Street banks in New York.

She started her career in the Israeli Navy, where she served for four years as a computer programmer and technology specialist.
Rom Y. Schrift, Assistant Professor of Marketing, the Wharton School, University of Pennsylvania

Professor Rom Schrift is an assistant professor of Marketing at the Wharton School, University of Pennsylvania. He earned his PhD in Marketing and Master’s in Philosophy from Columbia University Business School.

Professor Schrift studies consumer behavior focusing on judgment and decision making. More specifically, he explores the psychological processes that consumers undergo prior to reaching a decision, the formation of consumers’ preferences, and the roles of decisional-conflict and effort in choice. His work has been published in top-tier academic journals, including Journal of Consumer Research, Journal of Marketing Research, Journal of Experimental Psychology, and Psychological Science. Professor Schrift’s research won several prestigious awards and recognitions, including multiple “Best Paper” awards, and the finalist for the recent “2016 William F. O’Dell Award.” He currently teaches systematic approaches to creativity at the Wharton School.

Professor Schrift teaches Creativity (MKTG 234/734) and Consumer Behavior (MKTG 211). He earned his MBA from the Hebrew University of Jerusalem and a B.Sc. in Engineering from Ben-Gurion University in Israel. Prior to his academic career, he worked as an R&D Engineer and as a consultant in the field of marketing research.
Eli Singer, Chief Executive Officer & Co-founder, Jethro

Mr. Eli Singer Co-founded and serves as Chief Executive Officer of Jethrodata Inc. Mr. Singer Co-founded Webcollage Inc. in 1999 and served as its Chief Executive Officer. He is a serial entrepreneur with over 20 years’ experience leading Israeli high-tech companies in the US. Mr. Singer served as President of Memco Software, Inc. and founded its North American business. He led Memco’s growth from a small startup to one of the largest information security software companies in the world until its acquisition by Platinum Technology in 1999. Prior to joining Memco in 1995, Mr. Singer served five years as a senior IT consultant for major Wall Street banks. He started his career in the Israeli Navy, where he served for more than six years as an officer and technology specialist. He was also the co-founder and President of Element Cleantech, a leader in the algae for food and fuel space. His experience and expertise include building high-growth businesses in enterprise software and Internet and launching innovative technology products. He served as Chairman and Director of WebCollage Inc. He served as Member for Advisory Board of Whale Communications Ltd. Mr. Singer has a BS in Computer Science and MIS from Pace University in New York.
Gary Singer, Chief Strategic Officer, Kobre & Kim, L.L.C.; Partner Emeritus, A.T. Kearney

Gary recently joined Kobre & Kim as their first Chief Strategy Officer charged with identifying and executing structural and tactical opportunities that will maintain and enhance the firm’s distinctive, and highly profitable, capabilities and double-digit growth trajectory. Kobre and Kim is the premier global law firm that provides integrated, multijurisdictional legal strategy in cross-border disputes, particularly those relating to international fraud and misconduct.

Gary formerly led the global management consulting firm’s, A.T. Kearney’s, global marketing, branding, communications, research, knowledge management and production functions as well as served clients as a member of the Strategy and top-line transformation (STLT) practice. He has been associated with the firm since 2006 and joined full-time in 2013.

Prior to A.T. Kearney, Gary was founder and chief executive officer of Redline Results, an independent management consultancy and was also a founding partner and chief executive officer of Buyology, Inc. a start-up which quantitatively measured non-conscious responses funded, in part, by Hakuhodo Inc., Japan’s 2nd largest advertising and public relations company. He also served as chief strategy officer and a member of the global board of directors at Interbrand, was a Marketing & Sales partner at McKinsey & Company, and spent more than 20 years at two global advertising agencies (Leo Burnett and D’Arcy), working with clients to create powerful brands and deliver superior shareholder value.

Gary holds a BSc. from Carnegie Mellon in cognitive psychology and an MBA in marketing and finance from the University of Chicago Booth School of Business. He is a frequent speaker and guest lecturer at the Columbia Business School, Yale School of Management and Carnegie Mellon Tepper School of Business.
Richard Smullen, Founder & CEO, Pypestream

Richard’s passion for early-stage startups has seen him launch successful businesses since his days at university in South Africa. At just 36, he has over 15 years experience in the technology industry having numerous patents and successful companies under his belt. Prior to launching Pypestream he served as co-founder and CRO of Genesis Media LLC, a multimedia, real-time video advertising platform founded in 2011.

Richard is a member of the Metro Chapter of the Young Presidents’ Organization and the founder of New York-based global equity and VC fund, SouthWinston, developing businesses in media, technology and entertainment.

An avid golfer and nature conservationist, when Richard is not messaging, he is playing 'World's Best Uncle' to his six adorable nieces and nephews.
**Teddie Wardi, Principal, Insight Venture Partners**

Teddie Wardi joined Insight in 2017 and focuses on high-growth software and internet companies. Teddie works with several Insight portfolio companies and helps lead new investments across both Enterprise and SMB software.

Prior to joining Insight, Teddie was a Partner at Atomico, one of the largest European venture funds based in London. He sourced and led multiple growth investments in SaaS companies, being active at both the board and company level supporting rapid growth and international expansion.

Previously Teddie worked at Dawn Capital, a SaaS focused early stage fund based in London, where he sourced and led investments in Automile and Showpad among others. Before moving to venture investing, Teddie was the co-founder and CTO of Nervogrid, a leading cloud service marketplace platform. Nervogrid was acquired by ALSO, Europe’s largest IT distributor that is listed on the Swiss stock exchange.

Teddie holds an MBA from Harvard Business School and a B.Sc. from Aalto University in Helsinki, where he focused on Finance and Computer Science.
Richard Witten, Senior Advisor to the President of Columbia University

Richard serves as the Special Advisor to the President of Columbia University, a position he assumed after retiring as the Vice Chairman of the Board of Trustees of the University. He is the Founder of Columbia Entrepreneurship, Innovation and Design and a member of the Columbia University Medical Center Board of Advisors, where he chairs the Cancer Advisory Council. Richard is also the Founder and Senior Managing Director of The Orienta Group, an investment and advisory firm, and is a retired General Partner of Goldman Sachs & Co, where he had a senior management role in the firm’s fixed income, currencies, and commodities businesses.

Richard is the Co-Chairman of the Board of New York City Center, and a member of the Board of the Harlem Children’s Zone. He also chairs the Board of Advisors of the Ragon Institute, a health research partnership between the Massachusetts General Hospital, Harvard University and MIT.

Mr. Witten was graduated from Columbia College in the City of New York in 1975, and from Harvard Law School in 1978 (both cum laude).

His first novel, Divided Loyalties, was published in 2006.