Oil & Gas Crisis Survey Q2/2020

Results and Insights

Authors:

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Strategy & Marketing Consultants



Houston, April 2020

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About Rice University

Executive Summary



These insights were developed based on results of a global survey of 195 Oil & Gas industry experts across all Oil & Gas verticals. One third of responses came from top and senior management. The survey was fielded from 03/27/2020 to 04/03/2020.

The current crisis in Oil & Gas is mainly self-made and caused by the price war between Saudi Arabia and Russia.

- Saudi Arabia, not Russia, is seen as main culprit. Only 9% of respondents blame US shale overproduction.
- COVID-19 has a big impact but is not the #1 cause of the crisis.

Most experts expect that the market will need three years to recover and go back to prices of \$60 per barrel Brent Crude.

- For most US shale producers, forecasted market prices will stay below avg. break-even costs of \$42 for the next year.
- Significantly faster recovery is expected for the natural gas industry, with future gas prices less linked to oil prices.

O&G companies on average are planning on cutting their CapEx by 35% due to this crisis.

- Approximately 170,000 O&G jobs will be cut in the US alone.
- Break-even prices for US shale producers are expected to decrease by 9.3% by end of 2020.

In 2020, apart from CapEx reductions, companies' internal initiatives will focus on operations and capital optimization.

- 80% of initiatives will focus on saving costs, only 20% on topline growth.
- Cutting costs alone will not be sufficient for medium and smallsized companies to survive in this market environment.

Experts expect non-producers' prices for products & services to drop by 13% on average.

- Forecasted price reductions differs by industry and company. Differentiation and value creation will become increasingly important to survive.
- Only 11% say they expect prices in their industry to increase; this implies that 89% do not think companies have pricing power.

8 out of 10 Oil & Gas industry experts strongly underestimate the impact of price reductions.

- Over two thirds of respondents underestimate the impact of price cuts by over 50%! This is a likely cause for price wars.
- Companies have poor understanding of price elasticities which leads to wrong pricing decisions and profit leakage.
- When volumes go down, companies should fight for prices "tooth and nail". This requires better pricing discipline.

Pricing is seen as the initiative with the highest ROI, but such initiatives are completely under-invested in 2020.

- Lack of focus on professionalizing pricing will make the US O&G industry more vulnerable and likely to engage in price wars.
- Pricing initiatives yield the highest ROI, yet companies do not act sufficiently upon them as they are so focused on cost-cutting.
- Simon-Kucher has a proven framework to quickly identify and lift pricing opportunities for O&G companies.

Source: Simon-Kucher & Partners

Authors





Philip W. Daus Managing Partner – Houston at Simon-Kucher & Partners

- Managing Partner of Simon-Kucher's Houston office
- Head of US Oil & Gas practice. Industry focus also includes capital equipment, machinery, chemicals, and B2B services.
- Specializes in developing and implementing resultsoriented pricing and commercial excellence programs.
- Areas of expertise include go-to-market strategies, pay-forperformance systems, discounting strategies, tender pricing and price negotiations.
- Published more than 30 articles and studies about pricing and sales strategy.
- Associate professor at I.E. Business School, guest lecturer at Rice University, University of Houston, University of Rochester, and regular keynote speaker at internal conferences.
- MBA from I.E. Business School and M.Sc. from WHU Vallendar, Germany, with studies in Spain, Brazil and India.



Utpal Dholakia George R. Brown Professor of Marketing at Rice University

- Teaches marketing and pricing to MBA students.
- Research focuses on financial decision-making by consumers & investors, marketing strategy for startups and small & medium-sized enterprises, and digital marketing issues.
- Published in many prestigious journals including Journal of Marketing Research, Journal of Consumer Research, Marketing Science, Management Science, Psychological Science, Journal of Marketing, Journal of Consumer Psychology, and Organization Science.
- Extensive consulting across industries, including O&G.
- Frequent author for Harvard Business Review. Blog on Psychology Today ("The Science Behind Behavior.")
- MS in Psychology, PhD in Marketing from the University of Michigan, MS in Operations Research from Ohio State University, BE in Industrial Engineering from the University of Bombay.

Special thanks: The authors would like to thank Emily Viehman, Kramer Brand, Patrick Ding and particularly Shah Choudhury and Ravi Kiran Kandhibedala from Simon-Kucher & Partners in Houston for their support.

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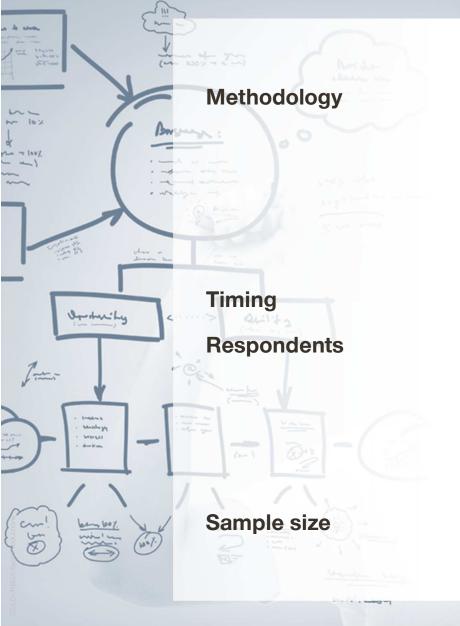
Key insights

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Set-up & methodology of this study



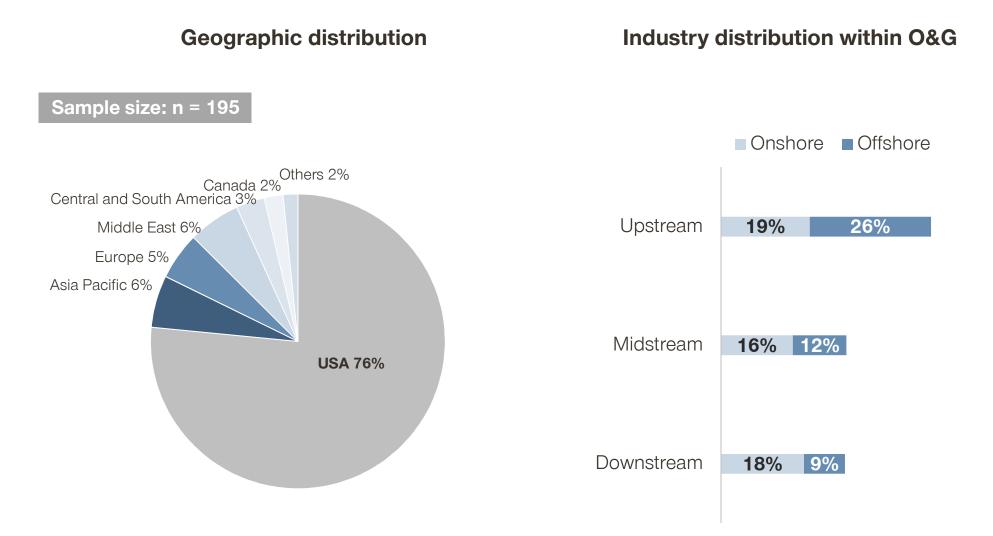


- Online survey conducted by Simon-Kucher & Partners in collaboration with Rice University and Dynata, an independent market research institute
- Fielding through email and social media postings from Simon-Kucher and Rice, panel survey by Dynata
- 20 questions on business environment, company activities, and pricing
- Fielding from 03/27 to 04/03/2020
- Global respondents with 76% coming from the US
- Respondents from all major Oil & Gas verticals (up-, mid-, and downstream) with good knowledge of the industry
- 33% top & senior management, 33% middle management
- Simon-Kucher & Partners clients and prospects, Rice alumni, as well as panelists from Dynata
- 195 valid responses (213 responses originally*)

Thanks to Dynata for supporting this research.

Source: Simon-Kucher, *Some replies were cut from the valid response sample due to incomplete or inconsistent responses

Global Oil & Gas study with focus on US, representation of up-, mid- and downstream



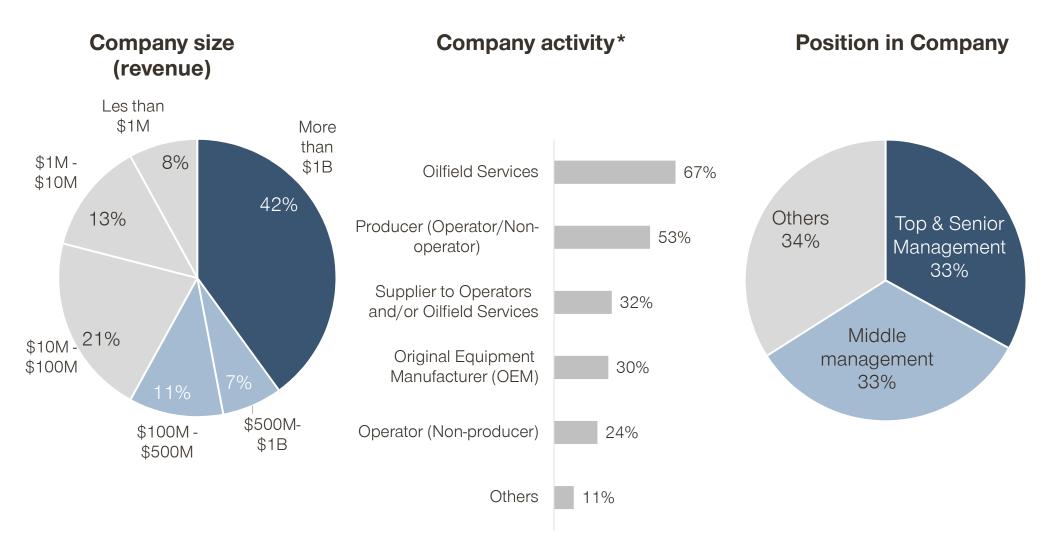
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Participants from companies of all sizes and O&G key industries, with high share of OFS and top management

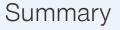




Source: Simon-Kucher Oil & Gas Crisis Survey Q2/2020 (n = 195); * numbers do not add to 100% as some companies work in several sub-industries (multi-verticals).

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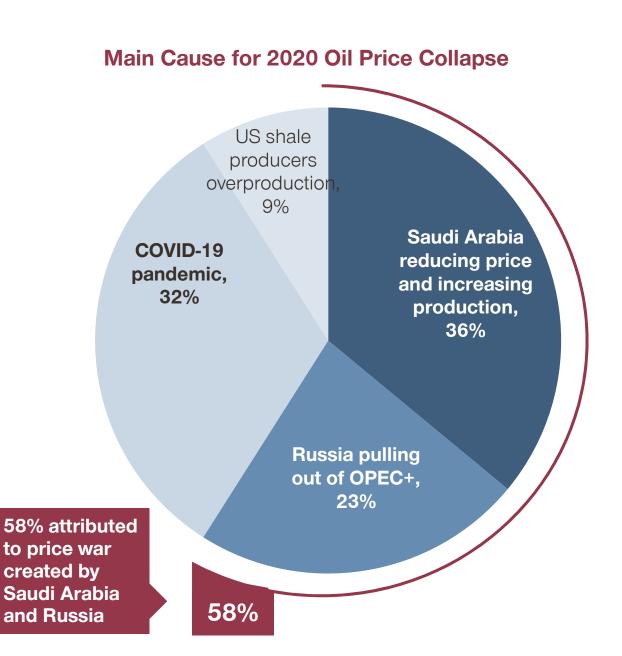
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- CapEx reductions and price cuts
- Impact of price cuts
- Company initiatives and priorities
- Recommendations

The breakdown of the OPEC+ alliance and resulting price war is seen as the main culprit for the current crisis in O&G

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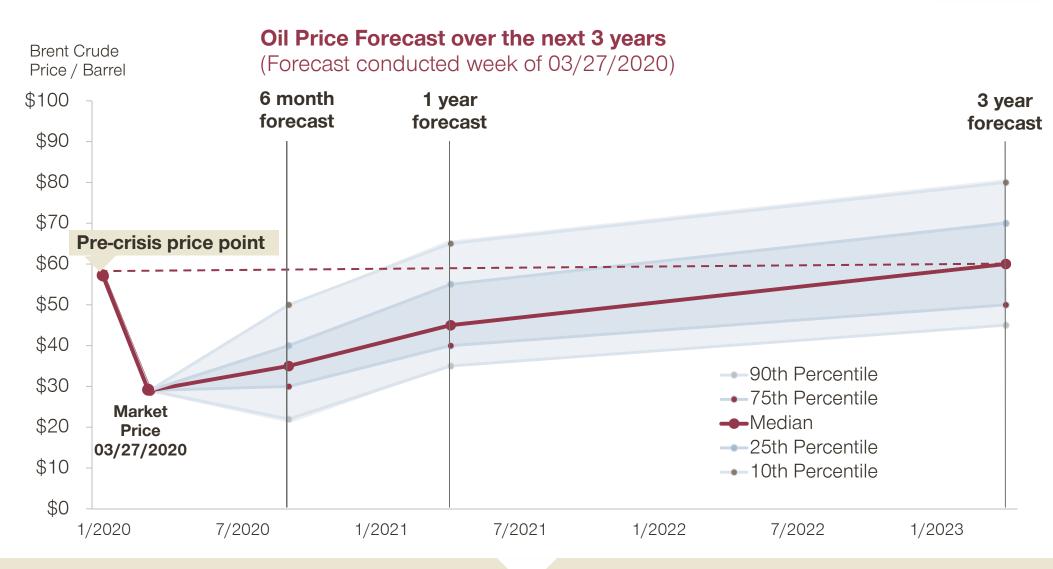


- While COVID-19 has a big impact, the current crisis in Oil & Gas is mostly "homemade" within the industry
- Saudi Arabia is blamed more than Russia for the price war
- View does not change significantly across
 O&G verticals, subindustries or geographies

Source: Simon-Kucher Oil & Gas Crisis Survey Q2/2020 (n = 195)

Most respondents expect that the oil market will need three years to recover to prices of \$60 per barrel Brent Crude





Most industry experts expect a slow improvement. However, other potential shocks (e.g. end of price war and new OPEC+, introduction of production restrictions for the US, etc.) are not considered.

Experts give different arguments for why the recovery may be faster or slower



Arguments for faster recovery

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"Longer term shale is slowing while demand continues to increase, so long-term fundamentals are sound." **Executive VP, Oilfield Services**

"... 3 years from now, the current reduction in investment in E&P will lead to higher prices" **VP, Oilfield Equipment Manufacturer**

"... lack of exploration and slow down on US unconventional will slow down production growth by 2022-2023" **Manager, Oilfield Services**



Arguments for slower recovery

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"... in order not to oversupply the price of oil will need to stay below \$50 a barrel to keep the US shell players from producing ..." **CEO, Oilfield Services**

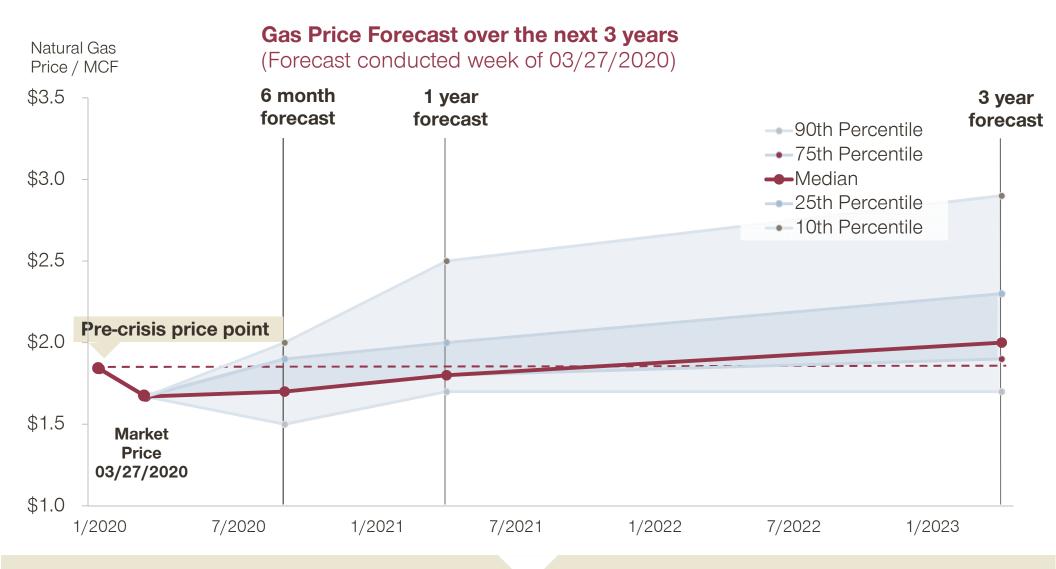
"The big producers will look to monetize their reserves as quickly as possible and invest elsewhere." *Marketing Manager, OFS*

"... however will not see prices over \$40 if OPEC and shale producers do not make an agreement..." **Business Development, Producer**



Market experts foresee a significantly faster recovery for the natural gas industry





In the future, gas prices will be even less linked to oil prices.

There are several reasons why gas recovery is not directly linked to prices of oil and will behave differently



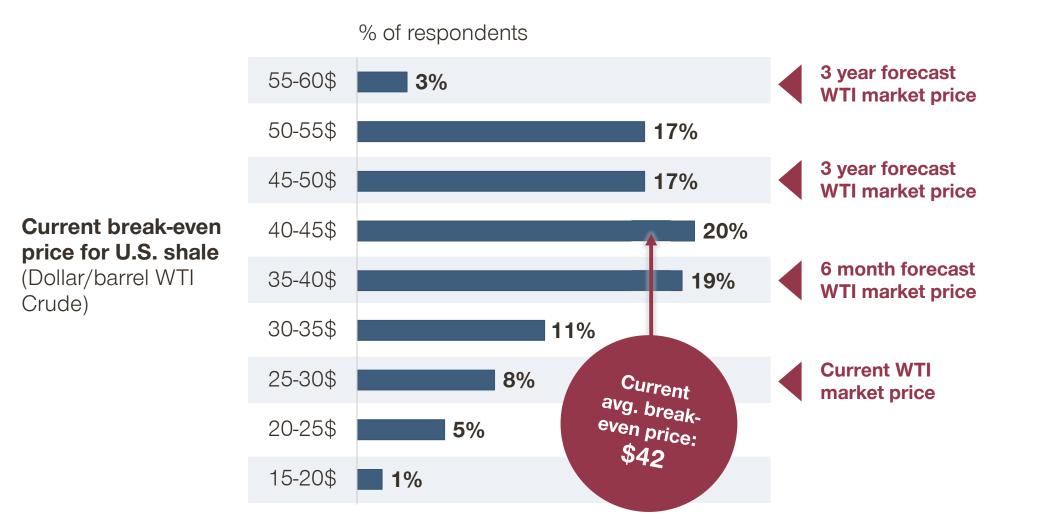
"Gas will continued to be oversupplied. LNG is not yet healthy." VP, Equipment Manufacturer "Natural gas is less affected but LNG demand will take time to ramp up and current LNG projects will come online, increasing capacity." Account Manager, Oilfield Supplier



"Gas market stays in demand, oil demand will be stagnant." **Consultant, Upstream**

"Gas prices will be more stable, although price will tend to go downwards versus current price due to additional supply, despite of additional demand due to coal conversion to gas" **Manager, Oilfield Services** For most US shale producers, forecasted market prices will stay below break-even costs for the next year

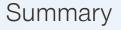
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Significant reductions in CapEx and improvements in operations necessary to bridge the gap.

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 Causes of crisis and impact on oil prices

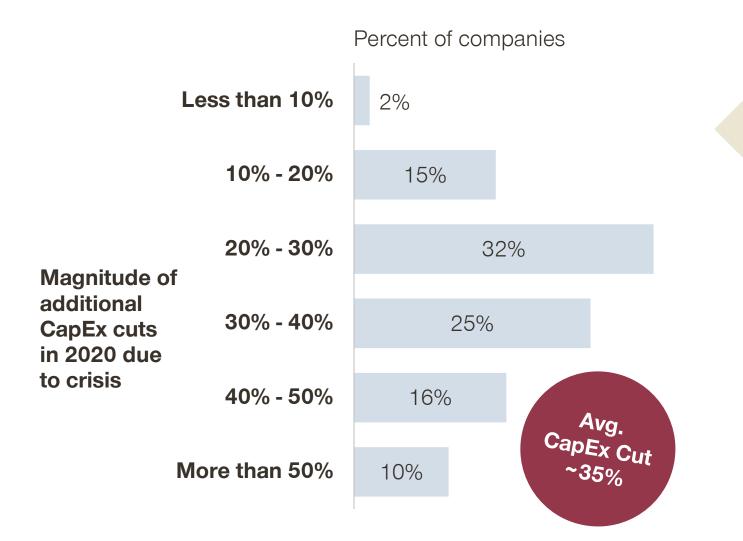
CapEx reductions and price cuts

- Impact of price cuts
- Company initiatives and priorities
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O&G companies both globally and in the US are planning on cutting more than one third of their CapEx due to the crisis

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- **Targeted cost-cutting** measures are substantial for most companies
- Half of companies plan for CapEx cuts of 30% or higher



170,000 Oil & Gas jobs will be cut in 2020 in the US alone!*

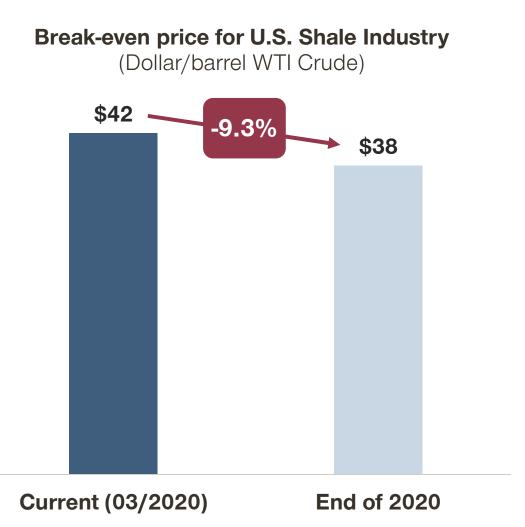
Source: Simon-Kucher Oil & Gas Crisis Survey Q2/2020 (n = 195)

* Historical CapEx cut in 2015 (Source: IEA) was correlated with 2015 layoff numbers (Source: Challenger, Gray & Christmas Inc, U.S. Bureau of Labor Statistics) to calculate ratio between CapEx cuts and layoffs: 1% cut in CapEx results in 4000 job cuts in US.

Market experts expect break-even prices for US shale producers to decrease by 9.3% on average by end of 2020

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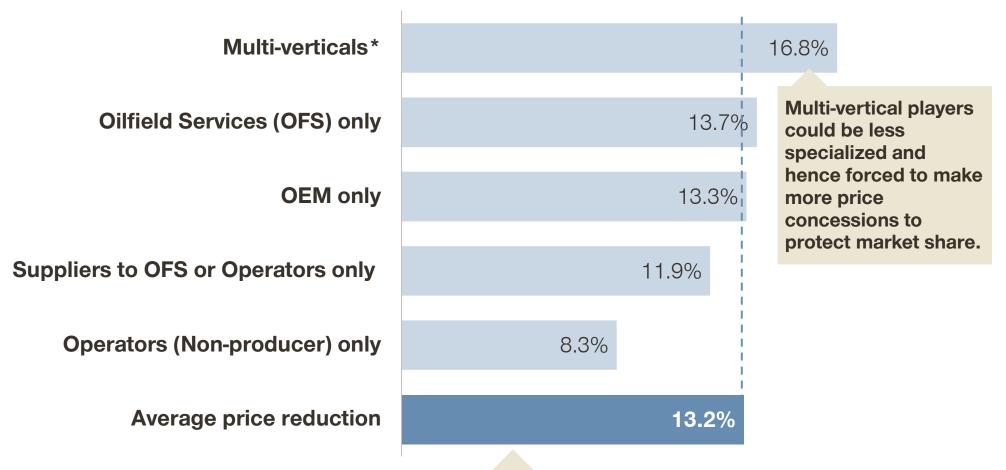


- **Capex reductions** alone are likely not sufficient to decrease prices by 9.3%
- **These price** reductions will not be sufficient to compete in the forecasted market environment

Experts estimate that prices of products and services will drop by 13% on average



Expected avg. price decrease for products & services by industry

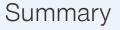


Overall differences in impact are likely due to different degrees of value creation / specialization. Differentiation will become increasingly important to survive in this market environment.

Source: Simon-Kucher Oil & Gas Crisis Survey Q2/2020 (n = 195); * most companies operate in multiple-verticals, e.g. OFS and OEM

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Forecasted price reductions differ strongly by company, even within sub-industries

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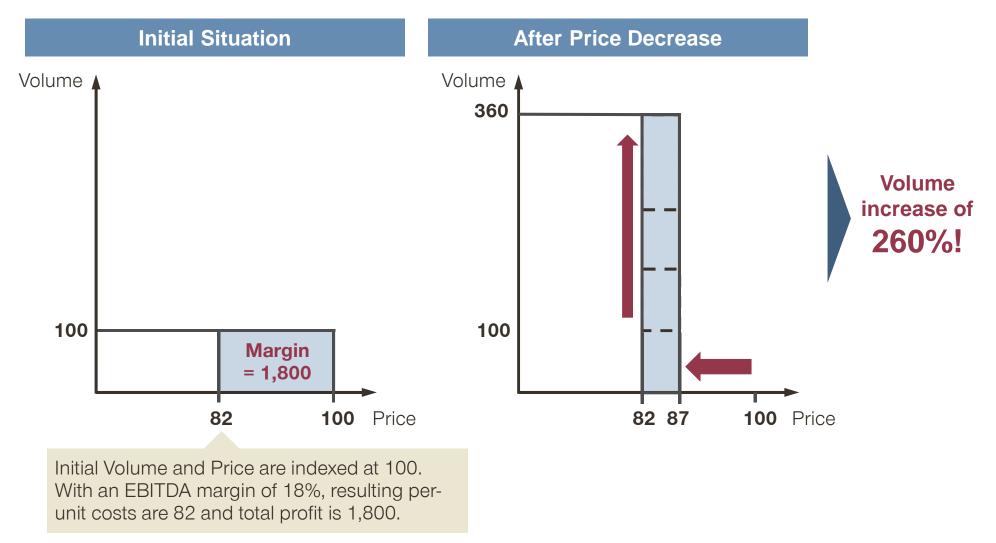
Expected price changes of products/services in the industry

Only 11% of experts expect prices in their industry to increase; this implies that 89% do not think their companies have any pricing power in their industry.

Price reductions typically have a tremendously negative impact on profits



Question: With an average price reduction of 13% in 2020, and assuming an average EBITDA of 18% of sales^{*}, how much do volumes have to increase to keep profits stable?



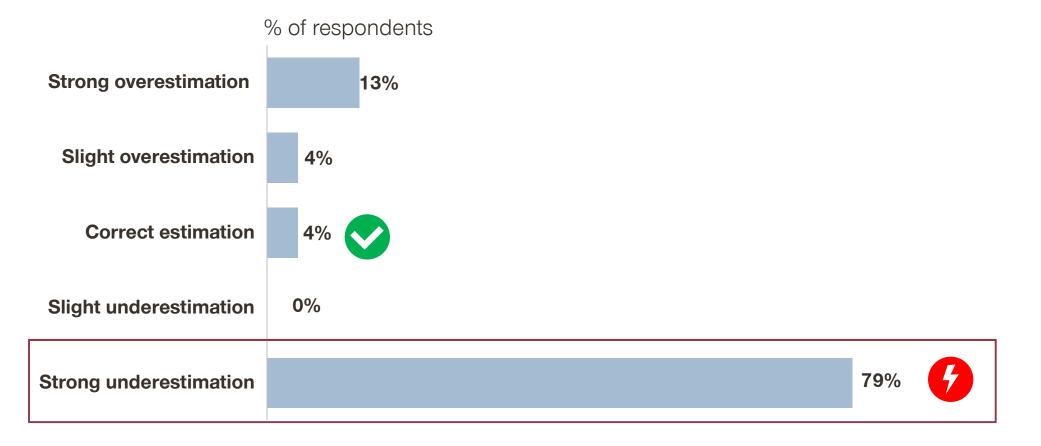
Source: Simon-Kucher

* Average EBITDA margin for participating companies; avg. EBITDA margin of Fortune Top 500 is approximately 15%, which implies that volumes would have to increase by over 800% for these companies to keep profits stable.

8 out of 10 Oil & Gas industry experts strongly underestimate the impact of price reductions



Estimation of the impact of a price reduction of 10%*



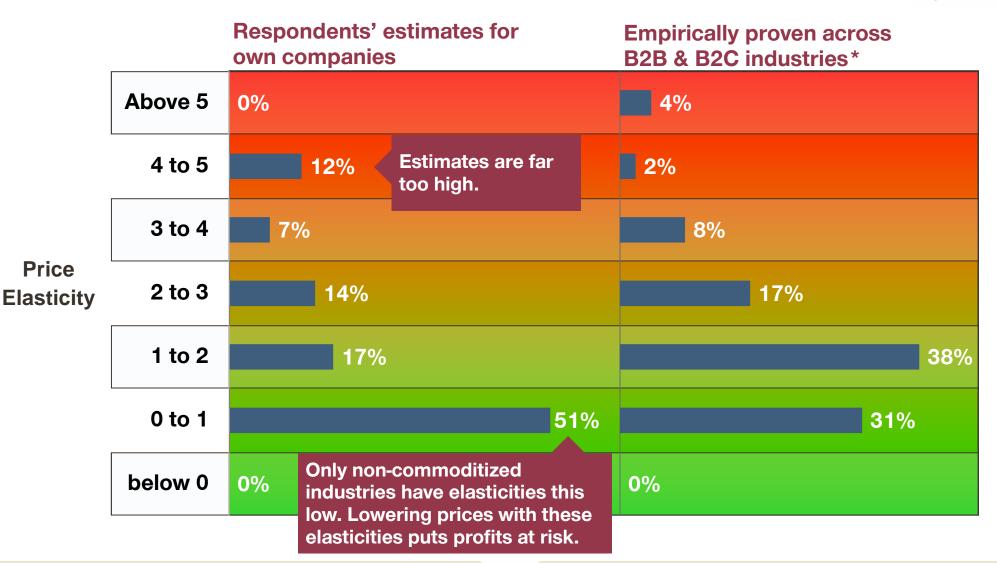
Underestimating the impact of price cuts is a frequent cause of price wars!

Source: Simon-Kucher Oil & Gas Crisis Survey Q2/2020 (n = 195). Question: "Based on your own estimates or intuition, if your company decreased prices tomorrow by 10% roughly how much more volume would your company need to sell to keep current profit levels constant?"; impact calculations were conducted by comparing respondents' answers with true impact calculated with data from respondents' companies (for respondents who named their company and for publicly listed companies only).

Respondents have limited understanding of price elasticities for their own companies







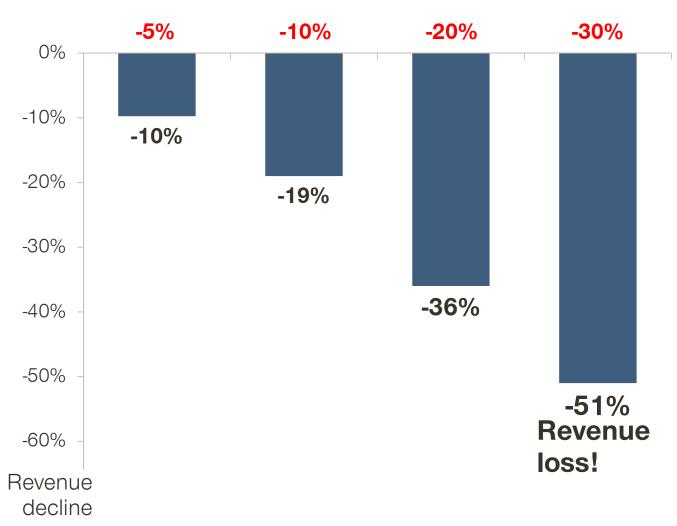
Companies either do not know their price elasticities or draw the wrong conclusions. This leads to inaccurate pricing decisions and profit leakage.

Source: Simon-Kucher Oil & Gas Crisis Survey Q2/2020 (n = 195). Question: Based on your own estimates or intuition, if your company decreased prices tomorrow by 10%, roughly how much more volume would your company sell?" * Friedel, Evelyn (2008): Price Elasticity: Research on Magnitude and Determinants

Simon-Kucher insight: When volumes go down, companies should fight for prices "tooth and nail"

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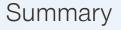


Effect of price cuts and volume reduction by ...

- In times of crisis, the typical reaction is to lower prices, hoping that volumes will remain stable
- However, it is better to accept volume cuts than price cuts!
- O&G companies need to take every measure to defend prices: Reinforce valueselling capabilities, boost service selling, etc.

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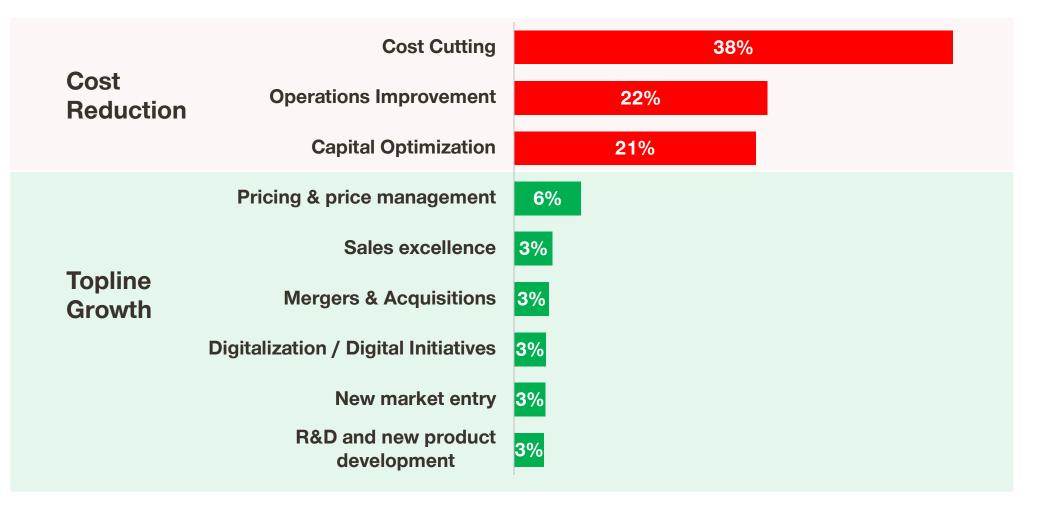
Company initiatives and priorities

Recommendations

Apart from Capex reductions, companies plan to focus on operations and capital use, focusing less on topline growth

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Relative importance of firm-wide initiatives in 2020



Cutting costs alone will not be sufficient for small and medium-sized companies to survive. Limited focus on topline growth topics will make the US O&G industry more vulnerable.

Surveyed industry experts understand that pricing initiatives are the projects that yield the highest ROI



Expected ROI for type of initiative (Scale of 1 to 5)



Investments in professional pricing are surprisingly low.

Pricing has the highest ROI, yet is under-invested in 2020 while companies focus on cost initiatives



Company focus areas v. ROI

RICE

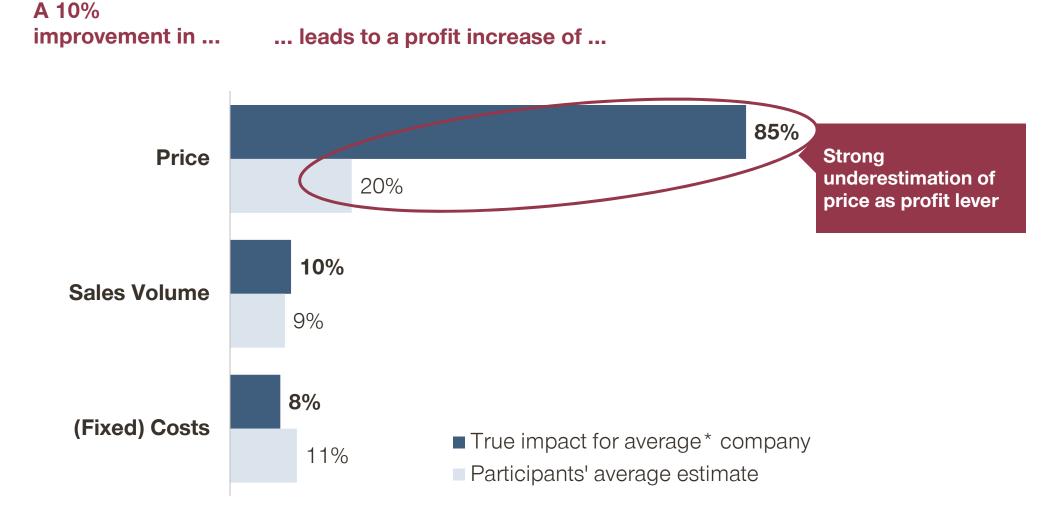
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Possible explanation: Most industry experts underestimate the true impact of pricing as a profit lever







Source: Simon-Kucher Oil & Gas Crisis Survey Q2/2020 (n = 195). Question : "Based on your estimates or intuition, how much would the following improvements impact your company's profitability? (Assuming no change in other factors.)" * Average company profitability is calculated by looking at Revenue and EBITDA of all the publicly listed companies from the respondent pool. Assumption: Respondents referred to fixed, not variable costs.

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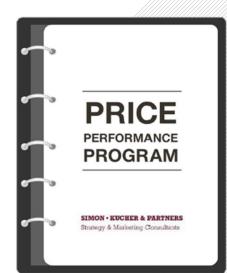
- Causes of crisis and impact on oil prices
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Recommendations

Pricing should be part of the crisis action plan – a Pricing Diagnostic helps to lift Quick Wins and develop a roadmap

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Details on next pages

Phase 1: Pricing Diagnostic, Quick Wins and Roadmap

- Assess current situation
- Identify pricing opportunities
- Prioritize strategic actions
- Develop pricing program draft
- Start implementing Quick Wins

Phase 2: Full Pricing Model Redesign*

- Design new pricing logic
- Develop processes & KPIs
- Align compensation scheme with new model
- Train sales force and assist with integration / rollout

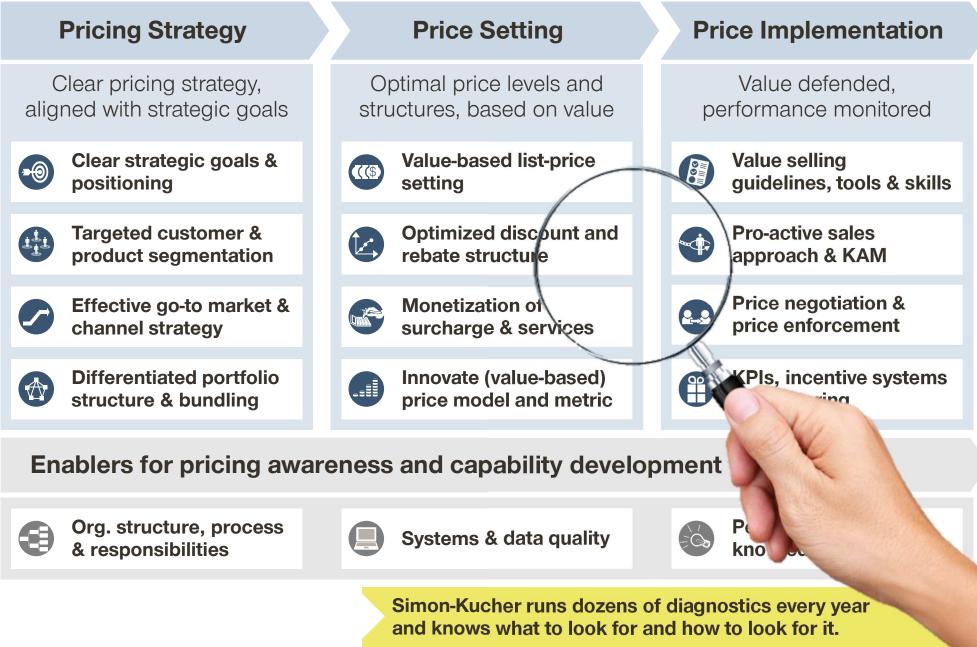
Expected typical gains: 0.5 – 1.50 pp. in ROS On top, an additional 1.00 – 4.00 pp. in ROS*

Source: Simon-Kucher & Partners, * Content and approach of Phase 2 depend on the outcome of Phase 1.

Assess the current pricing process systematically to identify improvement opportunities

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What you need to evaluate: Where is your business on this range?



ART	This is where many companies are right now			SCIENCE	
Salesperson's best guess	Internal guidance	Basic data analysis	Structured evidence	Quantitative evidence	
	 Individual's experience Guidance based on basic analysis Anecdotal evidence Focus on share and/or volume 	 Peer pricing: Benchmark prices from company-wide data Cost-plus pricing: Clear view of cost-to- serve or activity-based costing Profit-based analysis (as granular as possible) 	 Directional guidance from: A small sample of structured internal & external interviews Deal post-mortems Mystery shopping External benchmarking Pricing process fine- tuned Salespeople trained in value-based selling 	 Analyze data collected around selected KPIs Conduct large-scale customer research with sufficient breadth and sample sizes Conduct testing in selected markets with comparable control markets Develop value-based customer segments Develop optimal product configurations, price structures, and levels Model the impact of certain assumptions and decisions 	

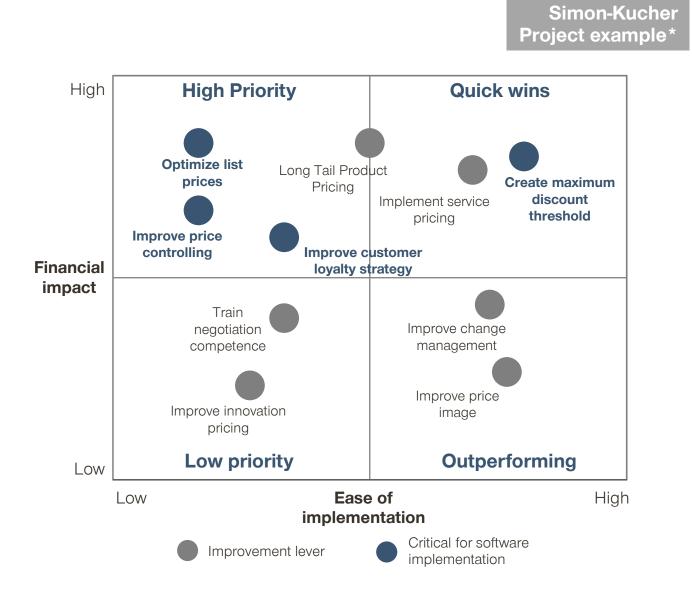
On average, 2 to 5 percentage points (not percent!) of ROS improvement through better pricing based on quantitative evidence.

Source: Simon-Kucher & Partners

A prioritization of pricing opportunities based on impact and ease of implementation will enable you to take action

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Simon-Kucher recommendation:

- Focus on Quick Wins and High Priority levers first to improve cash flow and create momentum
- Take action now there is never a wrong time get started on pricing

Source: Simon-Kucher & Partners project database; & data anonymized to protect client confidentiality

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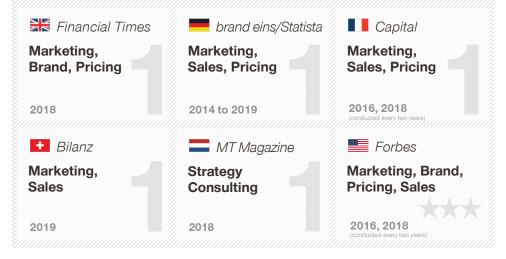
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Simon-Kucher & Partners at a glance

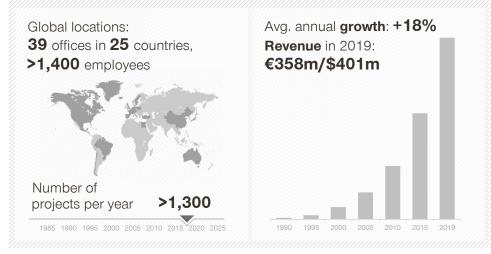
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Globally renowned consultancy for topline improvement



Facts and figures



What others say about us

No one knows more about pricing than Simon-Kucher.

Philip Kotler, marketing guru

Simon-Kucher is a down-to-earth consultancy, highly committed and trustworthy. They deliver what they promise.

> Member of the executive board, Bank Julius Baer & Co. Ltd.

Simon-Kucher was a great partner during our research phase. We appreciated their support, expertise, and partnership throughout the process of developing Uber Rewards.

Barney Harford, former COO, Uber

Pricing strategy specialists. The Wall Street Journal

Simon-Kucher profile

TopLine Power [®]	This is what Simon-Kucher is all about. We boost our clients' revenue and profits by optimizing their pricing, sales, marketing, and strategy.
Simon-Kucher Digital	We advise clients on how to improve their top lines with digital technologies, from big data analytics, machine learning, and artificial intelligence to tailor- made pricing and sales tools.
THE unicorn advisors	We have worked for over 30 unicorns, such as Asana, Stripe, and Uber.

Source: Simon-Kucher & Partners



TopLine Power®

Pricing

Pricing excellence programs // Pricing strategies for products, business units, and companies // Innovative price and revenue models // Launch and post-launch pricing // Pricing organization and processes // Data-driven pricing // Digital pricing // Dynamic pricing // AI and ML in pricing // Pricing for digital businesses //

Sales

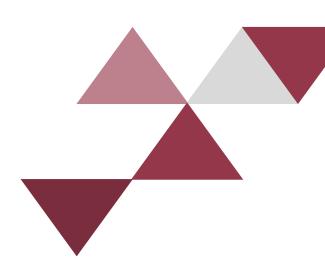
Sales organization and efficiency // Omnichannel strategies // Sales force effectiveness // Key account management // Channel management // Discount/ bonus systems // Digital sales force optimization // Digital sales tools and solutions // Incentive structures // Customer-centric sales organizations // Cross- and upselling strategies and tools //

Marketing

Market/customer segmentation // Portfolio design // Branding and value communication // Customer lifetime value in a digital world // Marketing efficiency and effectiveness // Digital loyalty programs // Personalization strategies in a digital world // CRM strategies // Optimizing online marketing //

Strategy

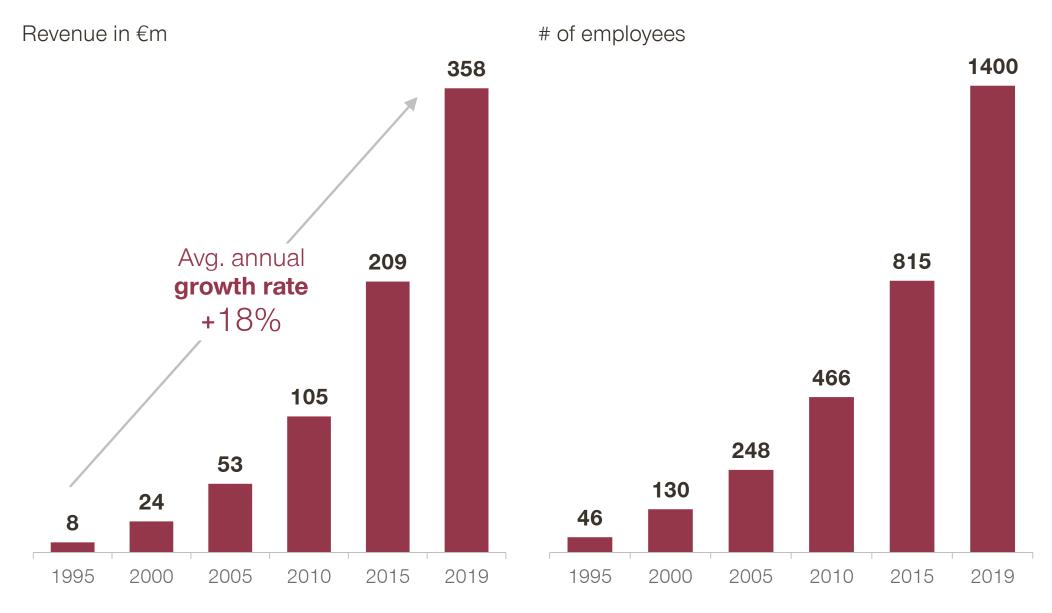
Growth strategies // Scenario planning // Digital business models // Digital monetization strategies //Competition strategies // Market due diligence // Go-to-market strategies // Effective and sustainable strategy implementation // Monetizing innovations // Subscriptionization strategies //



Source: Simon-Kucher & Partners

Continuous company growth

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Source: Simon-Kucher & Partners

Simon-Kucher | Rice | Oil & Gas Crisis Survey | 04/2020

Selected clients





Automotive

Kia Audi BMW Mercedes-Benz Volvo Continental Porsche



Chemicals Akzo Nobel Cabot DSM Bayer BASF Linde

l onza Merck Solvay

Toyota

VW



Consumer and retail

Adidas Danone Ferrero

Penny PepsiCo Swarovski



Pharma and life sciences

24 of the top 25 pharma companies 35 of the top 40 medtech companies

Software, technology, and internet

Kellogg

Nestlé

Nikon



Financial services Allianz **BNP** Paribas AXA Credit Suisse Barclays DB

Generali HSBC Western Union

Schaeffler

Siemens

Trumpf







Industrial goods and services

Heraeus

Kion

Osram





Intel		
PayPal		
SAP		

Scout24 Stripe Yelp





Orange Swisscom

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Oil & Gas



Castrol SOCAR GF Oil & Gas OMV Outotec

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Selection







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Rice University Key Facts



Rice University is a comprehensive research university located on a 300-acre tree-lined campus in Houston, Texas. Rice produces the next generation of leaders and advances tomorrow's thinking.

IN THE USA

RICE UNIVERSITY

Top 5

Private



No. 2 Quality of Life

Top 20 in USA

CONSISTENTLY RANKED

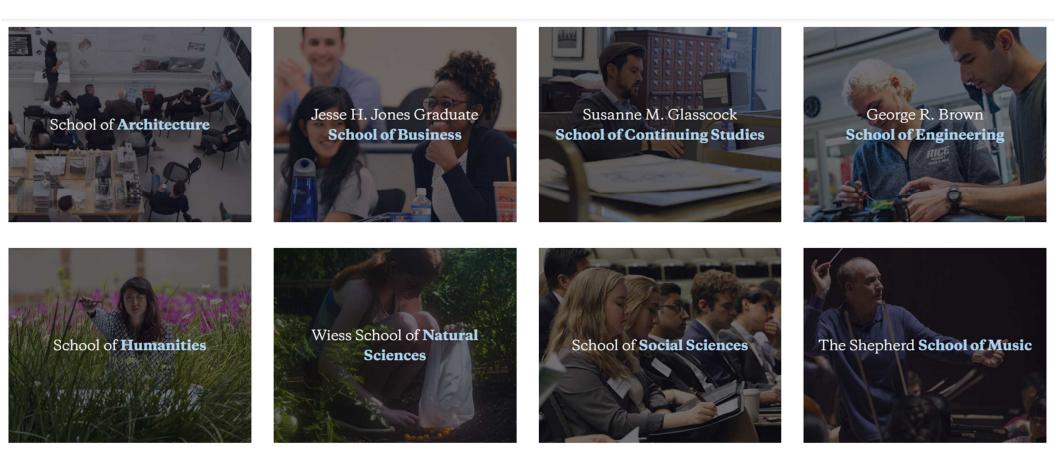
No. 7 in Top Schools for Resources

THE WALL STREET JOURNAL/TIMES HIGHER EDUCATION COLLEGE RANKINGS

Rice University Academics



Rice offers more than 50 undergraduate majors across six divisions of study, including architecture, engineering, humanities, music, natural sciences and social sciences.



Additionally, minors, interdisciplinary and preprofessional programs complement our comprehensive curriculum, with multiple opportunities for research and collaboration.

Jones Graduate School of Business MBA Programs

The Jones Graduate School of Business at Rice University is top-ranked in Texas and provides a culture that focuses on three things: being attentive, responsive and kind.

Program:	<u>Full-Time</u>	<u>Professional</u> (<u>Weekend)</u>	<u>Professional</u> (Evening)	<u>Executive</u>	MBA@Rice	#3
Average Experience:	5 years	7 years	7 years	17 years	7 years	Best MBA For Finance Princeton Review, 2020
Duration:	2 years	2 years	2 years	2 years	2 years	#1
Schedule:	Monday - Thursday	Every other Friday - Saturday	Two evenings a week	Every other Friday - Saturday	Monday - Friday	MBA program in Texas for Women Financial Times, 2018
Location:	On-Campus	On-Campus	On-Campus	On-Campus	Online and On-Campus	#3
Degree:	Master of Business Administration	Master of Business Administration	Master of Business Administration	Master of Business Administration	Master of Business Administration	Best MBA For Finance Princeton Review, 2020



Thank you!



Contact information:

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Rice University

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