

Convergence of CROs and Healthcare Agencies
Sector Review | July 2017

Delancey Street Partners is pleased to present our Outsourced Pharmaceutical Services Sector Review for July 2017. Outsourced pharmaceutical services companies, such as contract research organizations ("CROs"), provide support to the pharmaceutical and biotechnology industries through outsourced research and development and other services that span early stage drug discovery through commercialization and product launch. As they have evolved and matured, biopharmaceutical and other healthcare product manufacturers have increasingly leveraged external vendor relationships to perform non-core operations. CROs and other outsourced pharmaceutical service providers have benefited from this trend, capturing a growing share of the functions that large biopharmaceutical companies now seek to outsource.



This sector review highlights the convergence of CROs and marketing and publication agencies focusing on healthcare products, as the former increasingly target the buildout of late-stage commercialization capabilities through M&A.

### **Executive Summary**

In order to be commercially successful in an outcomes-based healthcare framework, biopharmaceutical products increasingly need to demonstrate efficacy and value to a broader group of stakeholders. As a result, pharmaceutical and biotechnology marketing has shifted away from a physician-centric model heavily reliant on large sales forces to a multi-faceted approach targeting payors and patients as well, to maximize adoption and reimbursement.

In an effort to become strategic partners to their customers, CROs are focused on extending their service offerings into commercialization functions that help products successfully enter the market. In doing so, CROs are acquiring communications, consulting, and other commercialization companies and building capabilities that have traditionally been provided by healthcare marketing and publication agencies.

### **Summary Observations**

- Reimbursement pressure and other market challenges are forcing biopharmaceutical companies to broaden outsourcing strategy to include commercialization functions
- CROs are increasingly focused on capturing this demand and becoming strategic partners capable of adding value throughout the product lifecycle
- Pharma commercialization and marketing spend is estimated to be ~\$150 billion and only ~16% outsourced
- CROs are actively competing with healthcare agencies for assets

### **About Delancey Street Partners**

Delancey Street Partners is an independent, industry-focused investment bank. We serve CEOs, Entrepreneurs, Shareholders and Boards of Directors of high growth and middle market private and public companies. Our services include strategic advisory, capital raising and independent board advice. We advise on sell-side and buy-side M&A, growth capital financings and recapitalizations. Our focus sectors include Business Services & Technology, Healthcare, Industrial & Industrial Technology, and Infrastructure.

Learn more at: www.delanceystreetpartners.com

### Delancey Street Partners Leadership

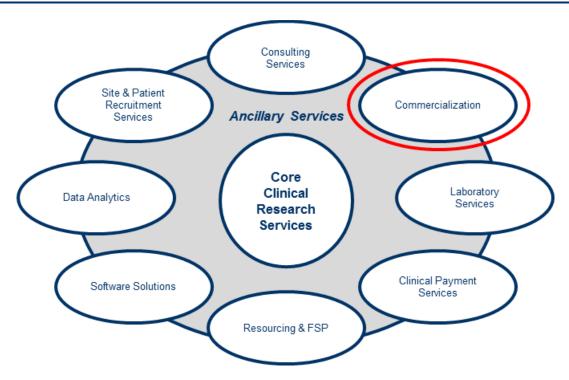
B. Andrew Schmucker	William J. Filip	Patrick E. Dolan	David K. Allebach	Jacques H. Fu
Managing Partner	Managing Director	Managing Director	Director	Vice President
484.533.6313	484.533.6312	484.533.6311	484.533.6315	484.533.6316
aschmucker@delanceyllc.com	wfilip@delanceyllc.com	pdolan@delanceyllc.com	dallebach@delanceyllc.com	jfu@delanceyllc.com



# Outsourced Pharmaceutical Services Convergence of CROs and Healthcare Agencies

Sector Review | July 2017

### Expanded Universe of Outsourcing Opportunities for Biopharmaceuticals



### **Commercialization Services**

Commercialization services offer clients with a comprehensive solution for bringing their product to market. Commercialization services span the full product-development life cycle and include:

Communications

- Marketing, branding, and advertising
- Medical education
- Public relations
- Key opinion leader ("KOL") engagement

Medication Adherence

- Care team coordination
- Patient engagement
- · Prescription availability
- Risk management

**Advisory Services** 

- Market access
- · Market research and analytics
- Product strategy, launch, and transition
- Licensing strategy

**Selling Solutions** 

- Outsourced sales teams
- · Managed markets support
- Sales support
- Sales team building and training



Convergence of CROs and Healthcare Agencies
Sector Review | July 2017

### Spotlight Trend: The Blurring Lines Between Healthcare Agencies and CROs

We see a continuing trend of CROs expanding their models to include a variety of services beyond traditional clinical trial outsourcing, particularly in commercialization services. According to KPMG, biopharmaceutical sales and marketing spend is estimated to be as much as double R&D spend and is only ~16% outsourced compared with ~50% for traditional clinical outsourcing. As a result, the contract commercialization service market is growing ~8% compared with ~3% for the traditional CRO market. In addition, by filling in capability gaps, larger CROs are able to offer solutions throughout the product development lifecycle to their clients, capturing additional share of wallet and cementing their positions in strategic partnerships.

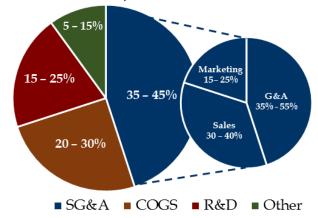
Similar to CROs, large advertising and communications agencies have also used acquisitions to gain share in attractive markets, add differentiated capabilities, and augment growth in a mature and competitive market. Healthcare, especially biopharmaceutical products, is an increasing area of focus as commercialization strategies grow in importance to product success. Agencies have acknowledged that commercialization and marketing strategies are becoming a consideration earlier in the product lifecycle, thus requiring increasing levels of subject matter expertise within their organizations.

### **M&A Implications**

As shown in the chart to the right, we have seen a high level of acquisition activity by both CROs and agencies targeting medical communications, market access, and consulting businesses. As a result, valuation multiples have trended upwards. In addition to strategic activity, private equity firms have recently invested in commercialization-focused outsourced pharmaceutical services platforms with acquisition-focused growth strategies.

### Significant Biopharmaceutical Sales and Marketing Spend

Total BioPharmaceutical spend estimated at more than \$650bn in 2014



Source: KPMG

#### **Outsourced Commercialization Market Overview**



Source: INC Research investor presentation





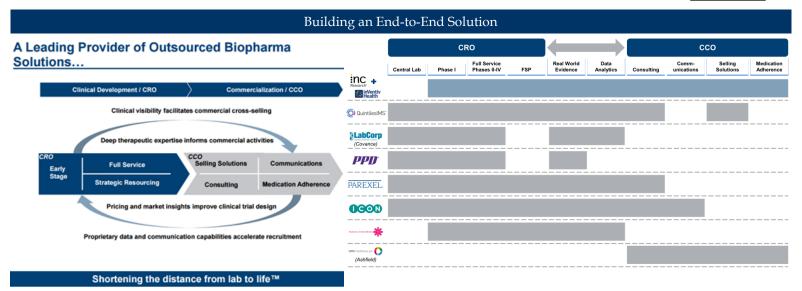
Convergence of CROs and Healthcare Agencies
Sector Review | July 2017

### INC Research Case Study: Adding Commercialization Capabilities Through inVentiv Health Acquisition

On May 10, INC Research ("INCR") announced the all-stock acquisition of inVentiv Health ("inVentiv") for \$4.6 billion, continuing a trend of CROs using M&A to build late stage product development and commercialization capabilities

A primary thesis of the acquisition was to create an end-to-end solution by integrating inVentiv's contract commercial capabilities, which serve a faster growing market with more outsourcing whitespace





Source: May 10, 2017 INC Research investor presentation announcing inVentiv acquisition

#### Market Reaction to inVentiv Health Acquisition

- Market reaction to the transaction has been very positive, with INCR stock up 30% since announcement of the acquisition
  - All stock transaction with 53% pro forma ownership for existing INCR shareholders
  - Transaction is expected to generate annual synergies of ~100 million
  - The transaction values in Ventiv at 12.2x<sup>(1)</sup> LTM EBITDA
  - INCR's investor presentation references 2017 and 2018 EV/EBITDA multiples of ~11x and ~10x, respectively(2)



(1) \$4.6 billion enterprise value and LTM adjusted EBITDA of \$376.2 million per INCR investor presentation (2) INCR investor presentation, includes the present value of inVentiv NOLs Source: Public filings, equity research, and CapitallQ



Convergence of CROs and Healthcare Agencies
Sector Review | July 2017

### Omnicom Health Group Case Study: Continued Expansion into Biopharmaceuticals

Since the early 1990s, the Omnicom Group has continued to expand its presence in healthcare. Pharmaceutical and healthcare marketing and commercialization services are an area of focus and account for approximately 12% of the Omnicom Group's total revenue.

### Healthcare Communications Platform: Omnicom Group

Omnicom Group reorganized its portfolio of individual healthcare brands by clients' customer segments in 2016. The reorganization allows for greater alignment and a focus on healthcare expertise among the Omnicom Health Group agencies. The four focus segments include:

- Professional: general agencies targeting healthcare professionals
- Patient: digital patient and relationship communications and marketing
- Payer: institutional customers focusing on access and reimbursement communication
- Medical, Evidence, and Regulatory: scientific communications, research, and medical education

# **Omnicom**Group

NYSE: OMC

The Omnicom Group is a global marketing and corporate communications company. Omnicom's branded networks and specialty firms provide advertising, strategic media planning and buying, digital and interactive marketing, direct and promotional marketing, public relations, and other specialty communications to over 5,000 clients in more than 100 countries.

# **Omnicom**HealthGroup

Omnicom Health Group is a global collective of communications companies with more than 3,200 dedicated healthcare communications specialists. It provides marketing services to the health and life-science industries through a combination of specialized agencies, customized client solutions, and collaborations with other Omnicom network agencies. Omnicom Health Group serves more than 100 clients in over 55 offices worldwide. Omnicom Health Group is part of the DAS Group of Companies, a division of Omnicom Group.

### Omnicom Health Group Platform History



Source: CapitalIQ and Delancey Street Partners



Convergence of CROs and Healthcare Agencies
Sector Review | July 2017

### Financial Sponsors Have also Been Active in Biopharmaceutical Commercialization

A number of healthcare focused middle market private equity groups have recently made outsourced pharma services investments focused on commercialization, which they are building through add-on acquisitions

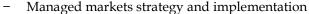
### TwoLabs Marketing (Excellere Partners)



EXCELLERE

PARTNERS

- Two Labs Marketing provides solutions for pharmaceutical manufacturers' most prevalent and complex commercialization challenges
- Two Labs designs and implements commercial strategies that are customized to each product's therapeutic class, distribution channel and patient access needs
- Two Labs was founded in 2003 and is headquartered in Powell, Ohio
- Transaction: Excellere Partners acquired Two Labs in January 2017
- Acquisition Strategy: Excellere Partners is actively seeking add-on acquisitions with the following capabilities:



- Healthcare data aggregation and analytics
- Trade management
- Patient support services
- Regulatory pathway and compliance consulting
- Government affairs / health economics and outcomes
- Medical science liaison outsourced agents





- The Access Group ("TAG") creates and executes strategies to support the world's leading biopharmaceutical corporations with maximizing their products' access to managed markets and patients
- TAG serves more than 90 of the world's leading pharmaceutical companies on products spanning
   75 therapeutic areas from early-stage development through patent expiration
- TAG was founded in 1998 and is headquartered in Berkeley Heights, NJ
- Transaction: Water Street invested in The Access Group in October 2016
- Acquisition Strategy: Water Street is seeking to bolster TAG's suite of services into a broader commercialization services offering

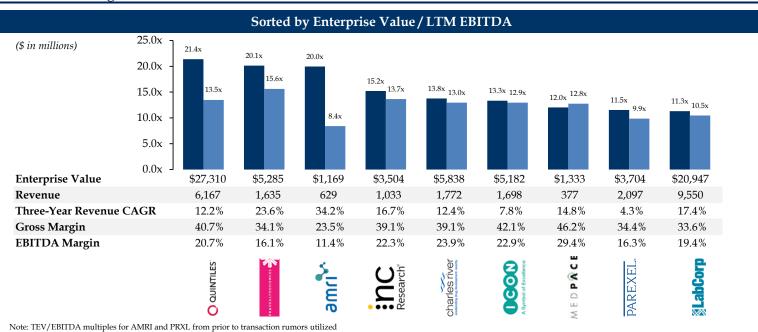
## Water Street



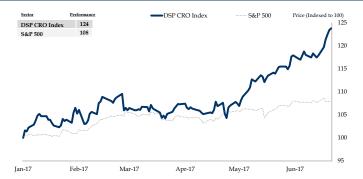
- · Continuing medical education
- Managed markets support
- Management consulting
- Promotional advertising and medical education
- Sales training

Convergence of CROs and Healthcare Agencies
Sector Review | July 2017

### **Current Trading Performance of Select CROs**



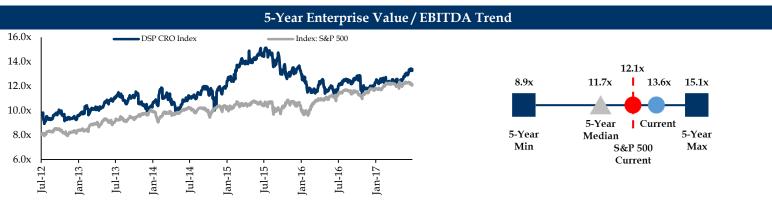
### Year-to-Date Sector Trading Performance vs. S&P 500



Note: AMRI and PRXL excluded from calculation due to announced transactions Source: CapitalIQ  $\,$ 

Source: CapitalIQ

- Strong year-to-date S&P 500 performance has been outpaced by the CRO sector
- June announcements of Albany Molecular Research and PAREXEL transactions have increased prices across the entire sector
- Implied enterprise value / LTM EBITDA multiples of 22.1x and 14.6x for acquisitions of Albany Molecular Research and PAREXEL, respectively



Note: CRO index weighted by market capitalization. Medpace and Quintiles excluded from index due to recent IPOs. TEV/EBITDA multiples for AMRI and PRXL from prior to transaction rumors utilized Source: CapitalIQ



Convergence of CROs and Healthcare Agencies
Sector Review | July 2017

### Recent M&A and Strategic Commentary from Select Companies



"We have been using our capital to service our debt, while we've got our leverage ratio to where we feel more comfortable, under 3. We're under 3 now. There's opportunity to do more meaningful M&A. We've got a nice list of targets that covers the whole gamut of Charles River. It's not as if it's all in manufacturing or all in safety assessment." (David Ross Smith, CFO, May 16, 2017)



"We are very much still engaged on our 'string of pearls' type acquisition policy. I think it is incumbent upon us to look at what's going on in the marketplace as well and making sure that we're not left out of step with the marketplace. So I think it's an interesting time for the industry. I think we will continue to do what we do, which is focus on the knitting and keep on putting on those bolt-ons. It's certainly a time when we have to kind of step back and say, 'Well, hang on, is there some good reason for this? Or is it just a bit of a wave of what's popular at the moment?" (Brendan Brennan, CFO, May 24, 2017)



"Within our combined clinical customer base, we see an opportunity to bring inVentiv's FSP and hybrid model to many of INC's top 50 customers. We will leverage our combined therapeutic breadth and depth to establish larger and deeper relationships across all customer sizes. In our past, INC has seen opportunities lost to a lesser competitor solely due to the competitor's ability to offer additional services. This transaction will allow us to counter that. We see multiple ways that inVentiv's commercial offering and relationships will enhance our success rate and derive revenue synergies within our clinical operations." (Gregory Rush, CFO, May 10, 2017)



"The biggest need for us in the late-stage clinical business is a stronger presence in the Asia Pacific market. We're undersized in Asia Pacific and that limits our ability to sell and conduct global clinical trials. That would be the biggest thing that we would look at in a potential late-stage acquisition." (David King, President and CEO, May 16, 2017)



"We have unveiled our new strategy, and as part of this new strategy, we are ramping up our M&A activity. When I say ramping up our M&A activity, we are very, very selective in terms of what we are looking for. We're selective about strategic fit, and we're selective about financial performance in the acquisitions that we make." (Josef von Rickenbach, Chairman and CEO, March 14, 2017)

"We have great respect for the global leadership that Josef and the talented employees at PAREXEL have built. We are excited to partner with a company and a team that have a strong track record in helping to successfully navigate the complexities innate to the biopharmaceutical industry and bring new therapies to market." (Jeremy Gelber, Partner, Pamplona Capital Management, June 20, 2017)



"(On Predictivv technology platform) We continue to move forward throughout the year looking to gain efficiencies. We're adding little tuck-in acquisitions that will help accelerate some of the aspects. We're hoping to complete something pretty soon. It's small but it gives us a technology that we didn't have." (Colin Shannon, President and CEO, April 26, 2017)



"We've done acquisitions, and we've repurchased \$1.3 billion of our stock in Q4 2016 and Q1 2017. In Q2 2017, we participated in a successful secondary offering by some of our sponsors, and we repurchased another \$300 million as part of that transaction. So we've been very active with our balance sheet and utilizing that to buy back stock. We think it's a good investment. We'll continue to do that along with our tuck-in acquisition strategy." (Michael McDonnell, CFO, June 14, 2017)



# Outsourced Pharmaceutical Services Convergence of CROs and Healthcare Agencies Sector Review | July 2017

### Recent Outsourced Pharmaceutical Services M&A Activity

Date	Target	Acquiror	Target Business Description			
	* NextPharma Technologies Holding Ltd	CapVest Partners	Contract development and manufacturing organization			
06/20/17	* PAREXEL International Corporation	Pamplona Capital Management LLP	Global biopharmaceutical services company			
06/20/17	Harrison Research Laboratories, Inc.	SGS SA	Clinical research organization for the cosmetic and personal care industry			
06/06/17	* Albany Molecular Research, Inc.	GTCR, The Carlyle Group	Global contract research and manufacturing company			
06/06/17	Symbiotic Research, LLC	Tentamus Group GmbH	Contract research organization specializing in crop protection and animal health			
05/24/17	* Sorento Healthcare Communications Pvt Ltd	Havas SA	Healthcare advertising and communications services			
05/10/17	* inVentiv Health Inc.	INC Research Holdings, Inc.	Outsourced phamaceutical services			
05/09/17	ProPhase, LLC.	WIRB-Copernicus Group, Inc.	Clinical trials services and specialty solutions			
05/09/17	MedAvante, Inc.	WIRB-Copernicus Group, Inc.	Technology-enabled signal detection solutions in clinical trials			
05/09/17	ImageIQ, Inc	eResearchTechnology, Inc.	Contract research organization and imaging software developer			
05/02/17	ThreeWire, Inc.	WIRB-Copernicus Group, Inc.	Customized clinical trial recruitment, enrollment, and retention services			
04/26/17	* Pharmaceutical Product Development, LLC	Hellman & Friedman, The Carlyle Group	Global contract research organization			
04/05/17	J-STAR Research, Inc.	Porton USA, L.L.C.	Contract research organization for pharmaceutical and biotechnology companies			
04/03/17	Recerca Clínica S.L.	IUCT Emprèn, S.L.	Contract research organization based in Spain			
03/28/17	Bracket Global LLC	Genstar Capital, LLC	Clinical services and technology solutions for the pharmaceutical industry			
03/21/17	Oy Medfiles Ltd.	WDB Holdings Co., Ltd.	Contract research organization based in Finland			
03/09/17	Translational Cell Science LLC	BioreclamationIVT	Contract research organization specializing in preclinical services			
03/01/17	PharmOptima, LLC	Genesis Biotechnology Group, LLC	Contract research organization providing consulting and laboratory services			
02/28/17	* SNBL Clinical Pharmacology Center, Inc.	Pharmaron, Inc.	Drug discovery and clinical trial services			
02/15/17	* Takeda Pharmaceutical Data Service, Ltd.	PRA Health Sciences, Inc.	Data services provider to clinical research organizations			
02/09/17	Pharm-Olam International, Ltd.	Quad-C Management, Inc.	Global, full-service contract research organization			
02/06/17	Seaview Research, Inc.	Quotient Clinical Ltd.	Clinical research organization providing clinical pharmacology testing and laboratory services			
02/01/17	* The Medical Affairs Company LLC	PAREXEL International Corporation	Contract medical organization providing medical and scientific affairs solutions			
	HD Biosciences Co., Ltd.	WuXi PharmaTech	Preclinical contract research organization			
01/10/17		Pharmaron, Inc.	Clinical research services for pharmaceutical and biotechnology companies			
	TwoLabs Marketing, LLC	Excellere Partners	Consulting services for drug development and commercialization process			
	* TKL Research, Inc., (Clinical Trials Division)	Novella Clinical, Inc.	Provides clinical trial services			
11/17/16	CLINapps Inc.	Bracket	Software development & consulting services to pharmaceutical and biotechnology industries			
11/10/16	inVentiv Health Clinical, Inc.	Advent International Corporation	Contract drug development services for biopharmaceutical and medical device companies			
10/24/16	The Access Group	Water Street Healthcare Partners	Healthcare communications and consulting services			
10/20/16	BioClinica, Inc.	Cinven	Integrated clinical research technology solutions for the biopharmaceutical industry			
10/03/16	ExecuPharm Inc.	PAREXEL International Corporation	Functional service provider services for the biopharmaceutical industry			
09/28/16	Agilux Laboratories, Inc.	Charles River Laboratories International, Inc.	Metabolism and pharmacokinetic services for the pharmaceutical industry			
09/19/16	ClinicalRM, Inc.	ICON Public Limited Company	Research, regulatory and sponsor services for the biopharmaceutical industry			
09/01/16	EVIDERA	Pharmaceutical Product Development, LLC	Health information and research services for life sciences organizations			
08/04/16	IMS Health Holdings, Inc. (NYSE:IMS)	Quintiles Transnational Holdings Inc.	Information and technology services to healthcare industry worldwide			
	InClinica, Inc.	Velocity Fund Management	Clincial research outsourcing services for the pharmaceutical industry			
07/25/16	Compass Research, LLC	BioClinica, Inc.	Clinical research and trial services for the biopharmaceutical industry			
06/27/16		Charles River Laboratories International, Inc.	Contract analytical, formulations and development-support laboratory services			
06/09/16	BioPharm Communications, LLC	Omnicom Health Group Inc.	Medical communications company that develops and distributes medical related information			
05/31/16	Medelis, Inc.	WCCT Global, LLC	Oncology contract research services for the biopharmaceutical industry			
05/25/16	Privacy Analytics Inc.	IMS Health Holdings, Inc.	Data anonymization software solutions for healthcare and related industries			
05/17/16	Choice Healthcare Solutions Limited	Succinct Communications Limited	Medical communications for the pharmaceutical industry			
05/03/16	eResearchTechnology, Inc.	Nordic Capital	Technology-driven services for the biopharmaceutical industry and medical devices			
04/04/16	WIL Research Company, Inc.	Charles River Laboratories International, Inc.	Global contract research organization for the biopharmaceutical industry			
03/18/16	Nextrials, Inc.	PRA Health Sciences, Inc.	Trial management electronic data capture software for the biopharmaceutical industry			
03/01/16	Research Across America Inc.	Synexus Limited	Clinical research trial services for the pharmaceutical industry			
02/10/16	Health Advances, LLC	PAREXEL International Corporation	Strategy consulting services for the healthcare industry			
02/08/16	CRO Analytics, LLC	Ben Franklin Technology Partners	Clinical research performance data collection, reporting and consulting services			
02/04/16	Dimensions Healthcare, LLC	IMS Health Holdings, Inc.	Healthcare informatics and consulting services			
01/31/16	AlphaImpactRx, Inc.	IMS Health Holdings, Inc.	Research-based insights, analytics and solutions to biopharmaceutical and other industries			
01/19/16	Clinverse, Inc.	BioClinica, Inc.	Cloud-based clinical payments system for the pharmaceutical industry			
	saction announced		·· r·/ · · · · · · · · · · · · · · · · ·			
. ,	Source: CapitalIQ					



Convergence of CROs and Healthcare Agencies
Sector Review | July 2017

### Information on Delancey Street Partners

### Recent DSP M&A Transaction Experience

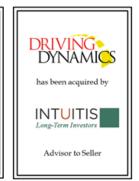






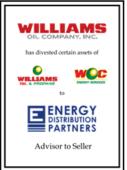


















Five Tower Bridge, Suite 420 300 Barr Harbor Drive West Conshohocken, PA 19428 www.delanceystreetpartners.com

Securities offered through SSG Capital Advisors, LLC Member SIPC | Member FINRA

All other transactions effectuated through Delancey Street Partners, LLC

The information and views contained in this report were prepared by Delancey Street Partners, LLC ("DSP"). It is not a research report, as such term is defined by applicable law and regulations, and is provided for informational purposes only. It is not to be construed as an offer to buy or sell or a solicitation of an offer to buy or sell any financial instruments or to participate in any particular trading strategy. DSP makes no representation as to the accuracy or completeness of the information presented in this report. DSP may be a market maker or specialist in, act as adviser or lender to, have positions in and effect transactions in securities of companies mentioned herein and also may provide, may have provided, or may seek to provide investment banking services for those companies. In addition, DSP or its respective officers, directors and employees may hold long or short positions in the securities, options thereon or other related financial products of companies discussed herein. Opinions, estimates and projections in this report constitute DSP's judgment and are subject to change without notice. The financial instruments discussed in this report may not be suitable for all investors, and investors must make their own investment decisions using their own independent advisors as they believe necessary and based upon their specific financial situations and investment objectives. Also, past performance is not necessarily indicative of future results. No part of this material may be copied or duplicated in any form or by any means, or redistributed, without DSP's prior written consent.