

Champions Trophy
Case Competition 2016



Case Study:
Orion Health

Wednesday 27 January

Case prepared by Matthew McQueen under the supervision of Dhavanthi Hariharan and Sunny Gu. This case has been prepared solely for the Champions Trophy Case Competition. All data in this case has been obtained from publically available sources and Orion Health. This case is not intended to serve as an endorsement, a source of primary data, or an illustration of effective or ineffective management.

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From: Warren Wallstreet
Sent: Friday 29th January
To: Orion Health Project team
CC: Charlie Charity; Susan Swaps; Melinda Margin; Bill Banker
Subject: Orion Health Strategy Presentation

Good Morning

Our client, Orion Health, is a leading IT company listed on the New Zealand NZX stock exchange. It provides healthcare organisations around the world with IT software that assists in the collation, management and analysis of health data. The company aims to revolutionise the way healthcare is delivered in order to give everyone healthier, happier and longer lives.

Globally, the size of the healthcare technology industry is expected to be worth \$70 billion by 2020. The largest single market for Orion Health is North America where a single private health organization can be larger in scale than the entire New Zealand health system. Orion Health is in an exciting phase of growth as it refines its investment approach and product offering. The company is taking on a more bullish investment approach; spending heavily on research and development (R&D) and building new software products. In conjunction, Orion Health is also altering its business model by encouraging customer uptake in Software as a Service (SaaS). These changes are implemented with a long term view, and the company is willing to absorb initial losses. Having been listed in December 2014, the company has a cash reserve which it is using to fund the investments expenses, and in the first half of the 2016 fiscal year, Orion Health recorded a Net Loss Before Tax of \$25 million for the 6 months, with revenues of \$102 million.

Orion Health's vision is to be a market leader in health technology. The primary challenge in pursuing this change is that, compared to other industries, healthcare lags in technology uptake. As a result, the challenge lies in developing relevant technology that meets current demand and capabilities, and simultaneously bridges clients to new technologies. Orion believes the North American market will have the most appetite for adapting to these changes, as it is dominated by competing private players, and regulatory incentives under Obama's leadership have acted as a catalyst to drive change in the past. However, the heavily regulated nature of the market presents a challenge both globally and in North America.

The company is interested in your team's strategy for how it can grow with a particular interest in North America, its largest market. To assist you in completing your analysis and develop your recommendations, please find the information prepared by our research team attached. We also suggest you view the short explanatory videos supplied by Orion Health on your team's memory sticks.

Regards
Marty Kaan
Partner
Galweather Stearn

ORION
HEALTH

ORION
HEALTH

Orion Health



Case Introduction History / Profile

Company Overview

Orion Health is an award winning software company that develops modern and creative solutions for healthcare organisations across the globe. Founded in 1993 by CEO Ian McCrae, the company’s goal is to revolutionise the way in which healthcare is delivered; designing software that can enable a new model for healthcare centred on each individual patient.

To achieve this vision Orion Health delivers the platform for precision medicine providing the technology to manage the health of individuals, a population and future proofing for emerging models of care.

The company has experienced considerable growth over the last decade, and now employs over 1,200 people in 27 offices around the world. During this time, the firm has delivered a number of successful projects and developed a reputation as a leading provider of HIE¹, EHR², care coordination, and integration technology to the healthcare industry. The Chilmark Research 2014/2015 report, which ranked Orion as the top vendor stated: “Orion Health is arguably the most prominent provider of healthcare interoperability globally and a major health information exchange vendor in the US.”

Early History

The company’s expertise in connecting and managing health data began with an early project for Auckland District Health Board. The board desired to computerise and connect Auckland’s hospitals, through the installation of microwave dishes on the roofs of the hospitals to facilitate data transfer between 50 green screen terminals.

During the early years the firm had a broader set of projects including; baggage handling, airline reservation systems and accounting software. Based on market signals that the greatest opportunity lay in the health sector, the company’s focus narrowed to become the health specialist it is today.

Recent IPO and performance

In November 2014, Orion Health was joint listed on the NZX Main Board and ASX stock exchanges following a successful IPO that raised \$125 million of which \$120 million was new capital. There was strong demand for the shares which led to a list price of \$5.70 at the top of the \$4.30-\$5.70 indicative price range. Since the listing, the stock had a disappointing 2015, ending the year just above \$3.

The company, however, remains positive and states recent performance is in line with expectations as the firm continues to invest in R&D. Interim results for the first half of the 2016 financial year showed pleasing performance with revenues growing 26% year on year to \$102 million for the period, similar growth is expected in the second half of the year. The company now manages over 90 million patient records on its systems as it serves a growing list of clients with a number of sizeable contracts won during the period. For the first half of 2016 Orion Health recorded a Net Loss Before Tax of \$25 million up from \$21 million in the same period last year. The company still has significant cash reserves of \$77 million after a net reduction of \$18 million during the period.

HISTORY | OUR JOURNEY

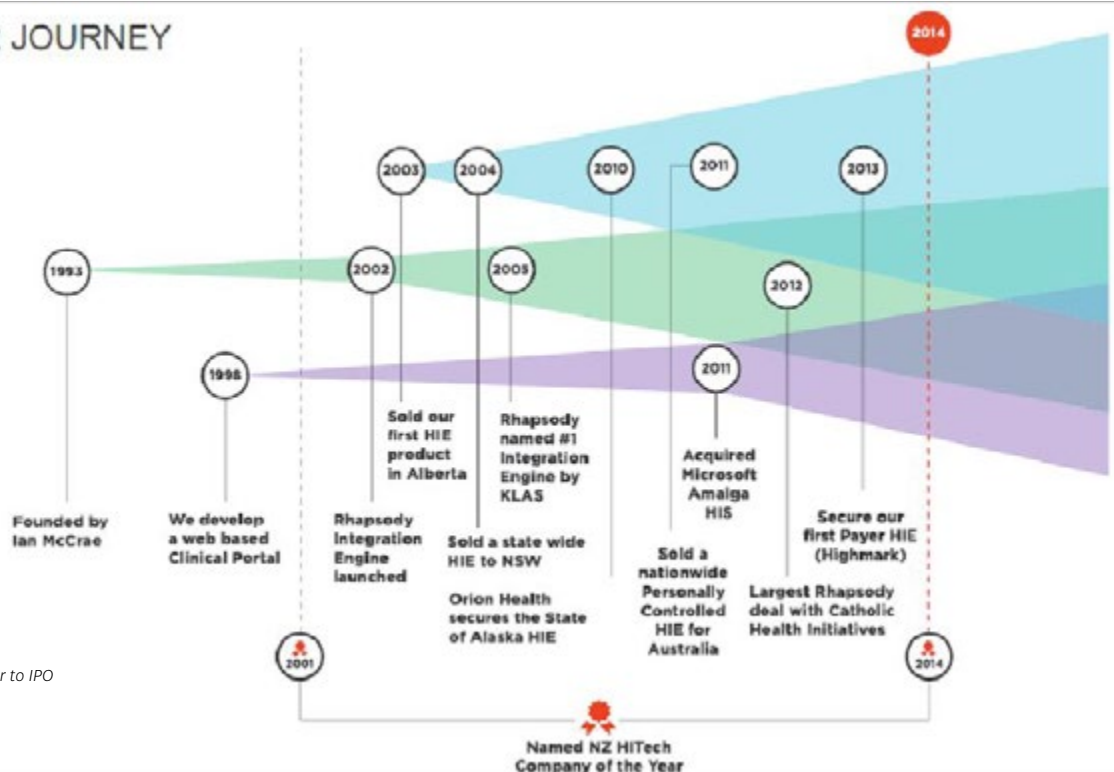


Figure 1: Orion Health’s journey prior to IPO (Source: 2014 Corporate Overview)

1 HIE: A Health Information Exchange is a platform for the sharing of health information electronically between doctors, nurse, pharmacists, patients and other health care providers.
2 EHR: A Electronic Health Record is a digital version of patient’s paper chart, giving real time patient information securely to authorised users.



Current Direction

Orion Health is in an exciting period of change; taking on a more aggressive investment approach to develop innovative solutions and transitioning its product offering to standardised cloud based solutions.

Orion Health is investing heavily in R&D as it develops new technology, investing \$32 million in the first half of FY2016. This includes 500 technical staff dedicated to building new functional and technical capabilities into the firm's software, sustaining and improving existing products, and building automation to support new cloud-based deployment models. This investment was underscored by the recently rebranded and updated open platform now called Amadeus will be able to process genomic and biometric data alongside clinical, social, pharmaceutical and insurance claims data.

By investing in applied research and new product development to harness and interpret the enormous growth of data, the company aims to build a world class cloud based platform. The company can then deliver on its vision of taking customers on the journey of population health management, ultimately enabling them to improve health outcomes through precision medicine.

Orion Health is shifting their product offering toward the software as a service (SaaS) model, to offer more standardised and cloud based solutions. The company has set itself an ambitious target of 50% of total operating revenue coming from recurring revenues (managed services and support services) in three years, the latest interim results highlight the process with 41% recurring revenues up from 30% the year previously. The advantage in developing more standardised and cloud based solutions, such as Amadeus, is that a customer's software suites can then be continuously maintained and upgraded with Orion Health receiving ongoing management fees. In the US health data will completely shift to the cloud as it is the only scalable and efficient way to store the vast quantity of information being produced in the industry.

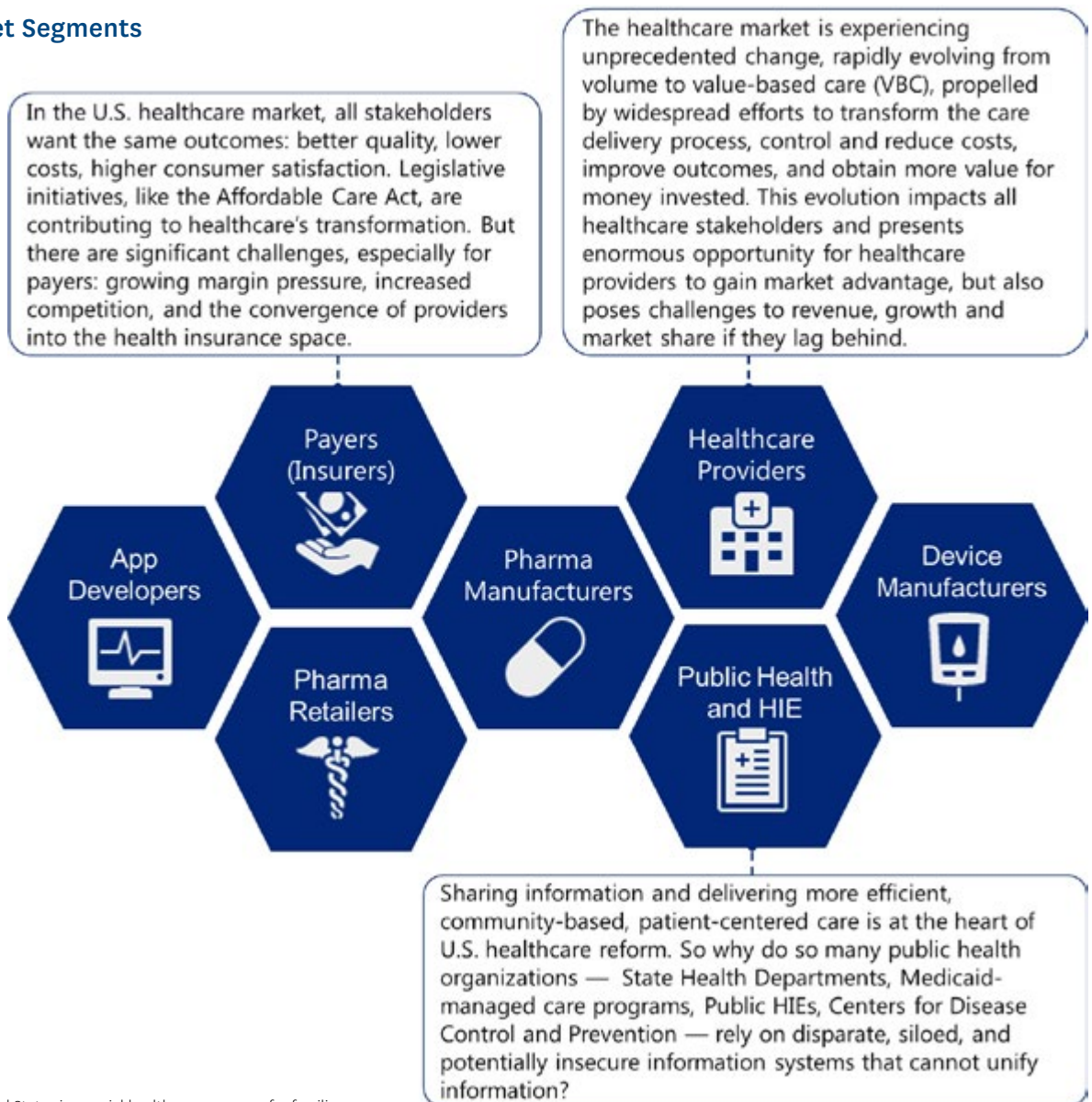


North American Health Industry

Overview

North America is the largest healthcare market in the world, with spending in healthcare making up 16.6% of GDP. Healthcare is provided predominantly by private companies with treatment paid for by medical insurers (payers). The 2010 Affordable Care Act (ACA), which expanded Medicaid³ and introduced mandatory health insurance, has led to a significant transformation in healthcare funding and insurance cover. The act was put in place to address the cost of healthcare in the USA, which was estimated at \$2.8 trillion in 2013, with spending on a per capita basis roughly twice that of other developed countries. Across the country health care spending varies by state for a detailed breakdown see appendixes.

Health Market Segments



³ **Medicaid** in the United States is a social health care program for families and individuals with low income and limited resources. The Health Insurance Association of America describes Medicaid as a "government insurance program for persons of all ages whose income and resources are insufficient to pay for health care".



The Patient Protection and Affordable Care Act aka Obamacare

Arguably the most significant reform of US healthcare since the creation of Medicare and Medicaid in the 1960s, the Patient Protection and Affordable Care Act (commonly referred to as the Affordable Care Act (ACA) or "Obamacare") was introduced in March 2010. This brought in a number of measures to increase health insurance coverage and affordability in the United States. Insurance companies (payers) are required to cover all applicants within new minimum standards and offer the same insurance premiums regardless of pre-existing conditions or sex. This Act has increased the number of people with private medical insurance in the US so that it currently stands at around 84%, with the goal of the Act to increase this to 100%.

As a result, payers face increased risk, which they cannot easily pass on through higher premiums. To help manage this risk, the payers are seeking information and solutions that help them assess the health of their members and proactively manage members' health while

improving the efficiency of the healthcare offered. This has helped change the way they look at healthcare, moving from a fee for service approach to a fee for an outcome and focused on health quality goals. Some 75% of providers currently participate in at least one value-based model. While these still represent a small part of current revenue, more than 60% of providers expect them to become the dominant payment strategy going forward.

New models of care

The health industry is trending towards the implementation of new models of care, primarily pay for performance and value-based care. These models will see the industry transition from disease centric to prevention centric underpinned by three Ps – Predictive, Preventative and Promotion. Focus will shift from reactive treatment to a more holistic approach to patient wellbeing as a payment is made based on cohort health outcomes instead of per treatment. The change is driven by both government policy and the commercial imperative of payers.





Health IT in North America

Overview

Healthcare companies utilise a number of different software packages to assist with hospital management, customer interaction and patient care records. The technology is rapidly revolving with four key stages of innovation with current products able to deliver population health outcomes with precision medicine a future trend.

Physicians are optimistic about the potential uses of health IT advances however they are weary about the security and cost of implementing software which hasn't been clinically proven. Given its sensitivity and detailed nature, health information it is a target for hackers and security breaches have become a common news item which has led to growing concern for the security of all data. Healthcare information security breaches cost the industry up to \$5.6 billion annually.

Consequently, uptake of innovative software platforms, tools and functions has been slow with health organisations purchasing IT solutions based on government incentives or regulations. This is evidenced by the strong market uptake of software products due to the US HITECH Act, detailed below. The challenge for software providers is how to up-sell the additional tools and newer platforms that can deliver the new models of healthcare.

US HITECH Act

The Health Information Technology for Economic and Clinical Health Act (HITECH Act) was enacted by Obama's government in 2009 to promote and expand the adoption of health information technology aimed at the creation of a nationwide network of electronic health re-

records (EHR). It provided US\$38 billion of government funding through the Medicare and Medicaid reimbursement systems as incentives for hospitals and GPs to become meaningful users of Electronic Health Records (EHR) and for these EHRs to be able to share data externally with other healthcare providers. Providers who are not meaningful users can also be penalised (with penalties increasing from 1% of Medicare and Medicaid payments in 2015 to 5% by 2019).

HITECH has incentivised providers to migrate from paper based to electronic record keeping – a critical prerequisite of more advanced population health management IT including HIEs. As of 2014, over 94% of hospitals have registered to qualify for meaningful use subsidies and 90% have been paid a subsidy as part of Stage 1, which requires that some structured data is entered in the EHR for 80% of patients treated. Stages 2 and 3, which will progressively be phased in through to 2021, will raise the quality and quantity of data required. HITECH also specifically provided US\$758m for the creation of state-based HIEs.

As such HIEs have become critical for Accountable Care Organisations (ACOs) to connect disparate data and achieve operational improvements. The payments ACOs receive are tied to healthcare quality goals and outcomes that improve efficiency (thus a movement away from fee for service to value-based remuneration). The number of ACOs has expanded since 2011, with over 520 ACOs currently operational in the US serving circa 15%-17% of the population. Two-thirds of the US population is living in localities covered by an ACO. As ACOs continue to expand in number or increase coverage and membership, this is expected to put pressure on other providers to be more efficient or risk losing business and members.

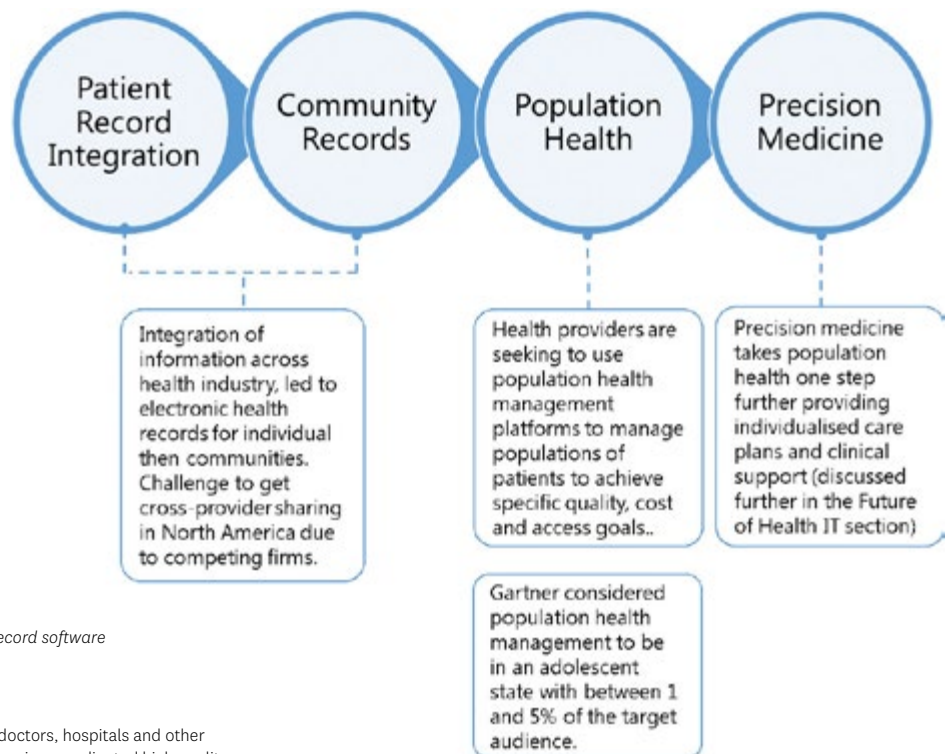


Figure 2: Four stages of innovation in electronic health record software

4 ACOs: Accountable Care Organizations are groups of doctors, hospitals and other health care providers who come together voluntarily to give coordinated high quality care to their Medicare patients. They are then eligible for bonuses for delivering of care more efficiently as part of value-based remuneration.



Future of Health IT

Overview

Technology is rapidly changing the health landscape. Gartner, in their latest Hype Cycle report, believes that healthcare is moving from an IT laggard to become a vibrant, dynamic and complex IT sector. Providers are struggling to keep up as major vendors and venture capitalists invest heavily in R&D to capture market share. Innovations that are predicted by Gartner to transform the industry in the next decade include big data and precision medicine these are discussed in more detail in the following sub-sections.

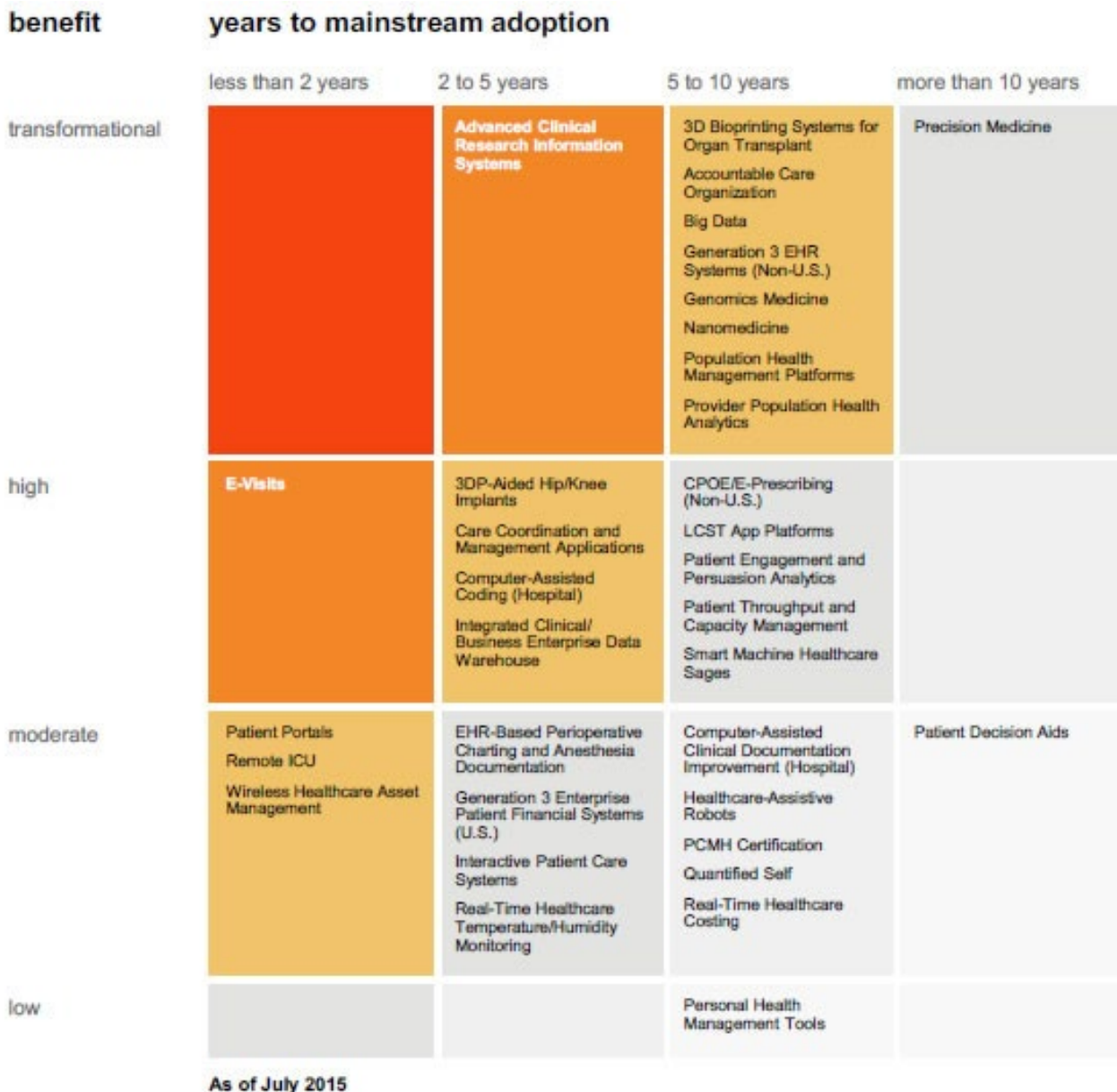
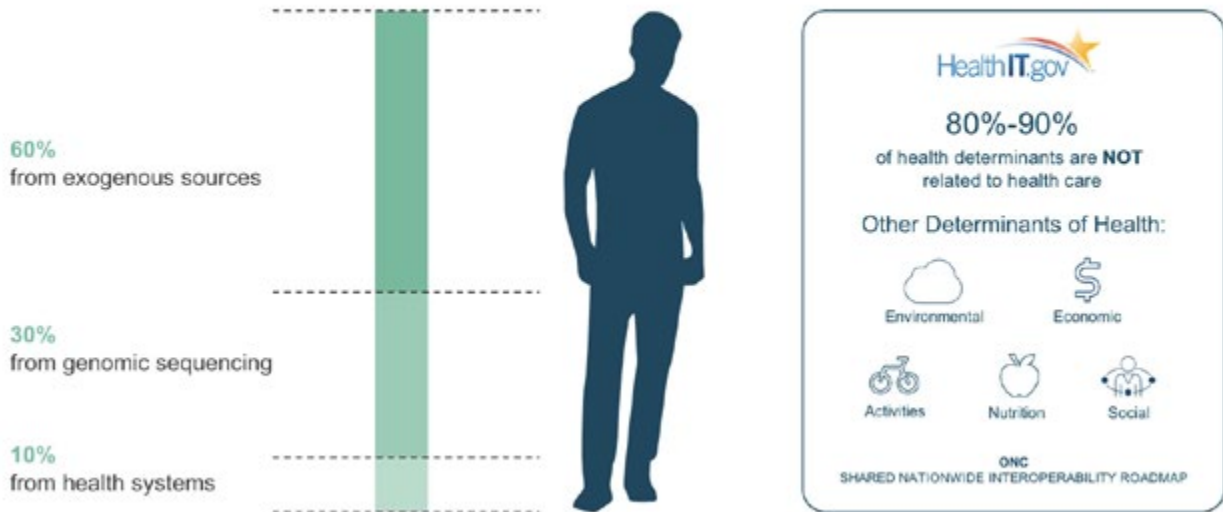


Figure 3: Gartner priority matrix



DETERMINANTS OF HEALTH | MOST DATA EXISTS OUTSIDE MEDICAL SYSTEMS

A vast amount of untapped data could have a great impact on our health



Steven A. Schroeder, M.D. "We Can Do Better — Improving the Health of the American People", NEJM 2007

Big Data

Big Data can be identified by high-volume, high-velocity and high-variety information that needs to be stored and processed. This is a trend spanning across a number of industries and is particularly relevant to the health sector. A single patient will have health data generated from a number of variable input streams such as general practitioners, clinical specialists, laboratory results within the health system alongside genomic information and data from external sources such as smart watch. This must then be collated and stored in a single patient record which can then output information back to each stakeholder in a patient's health plan. This leads to the importance of interoperability to allow the usable exchange of health information across technological systems and organisations. It also must then be scalable to handle the resultant explosion in health data which globally is expected to grow by 50 times by 2020.

Precision Medicine

Precision medicine is an emerging approach for disease diagnosis, treatment and prevention that takes into account individual variability in genes, physiology, anatomy, environment and lifestyle. Precision medicine is the 'how', building on from population health management which identifies and defines cohorts of patients as high risk and needs attention, the 'who'. Precision medicine is an accumulation of both medical and IT innovation. These include genomic, patient engagement and persuasion analytics, population health analytics, care management, personal health smart devices, quantified self and 3DP-hip/knee implants, all aided by improving EHR systems.

The term Precision Medicine become more widely used after US President Obama's 2015 State of the Union address which launched his precision medicine initiative. He called for an investment of \$215 million USD in the 2016 fiscal year to generate the scientific evidence needed to move the concept of precision medicine into clinical practice. The long term goal is to have a research cohort of over a million participants who will share genetic data, biological samples, and diet/lifestyle information linked to their electronic health record.

"Population Health Management"



All diabetics are the same

"Precision Medicine."



Every patient is unique



DETERMINANTS OF HEALTH | AN INDIVIDUAL VIEW

Genetic

- Family History of premature heart disease
- Genotype with heightened depression risk

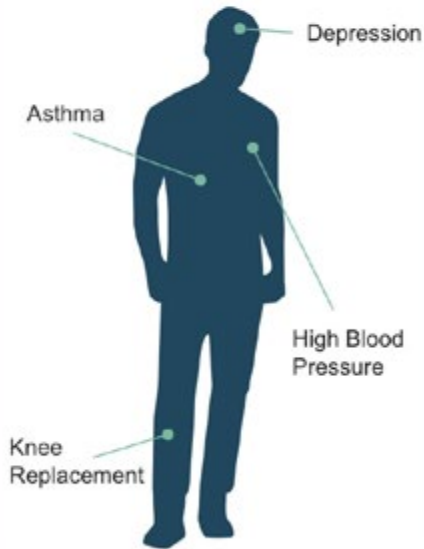
Pharmacy

- Compliant with BP Meds
- Last Antidepressant – 12m

Device Measurements

- Low Activity (<1,000 daily steps)
- Asthma Peak Flow 70% of expected
- Blood Pressure in target but rising

Clinical John – 40 year old male



Social

- Increasing alcohol consumption
- Separated from long term partner

Economic

- Laborer – working outdoors
- Unemployed for 6 months

Environmental

- Inner city – high pollution levels

Nutritional

- Unskilled at cooking
- Ready meals / takeaways
- No fruit / high fat / high carb



Orion Health's Offering

Overview

To enable the implementation of new models of health care along with precision medicine Orion Health offers customers a data platform solution, Amadeus. This is in conjunction with Rhapsody, Orion's interoperability engine that enables the information connections across organisations and functions. The platform data can then be accessed and decisions implemented through Orion Health applications or third party applications.

Selected Product Descriptions

Orion Health Amadeus

Amadeus is a platform for Precision Medicine, built on modern, scalable technology that provides clinicians and other users with the cognitive support they need to make the best decisions possible. We aggregate, store, and make sense of all forms of relevant data, so that we can transform healthcare by enabling precision medicine - transforming healthcare from being about many to focusing on one.

Orion Health Rhapsody

Orion Health Rhapsody Integration Engine achieves rapid interoperability between healthcare systems, enabling connected solutions in less time and at a lower cost. Rhapsody is our foundation product, the enabler that brings systems together, and is a proven, high performance engine for robust, reliable exchange and acquisition of health data. Rhapsody acquires and feeds unlimited data types into Orion Health Amadeus with in-built FHIR capabilities.

Orion Health Coordinate

Orion Health Coordinate facilitates care management and care team collaboration through a suite of applications that simplify patient management, care planning, task management and workflow. These collaborative tools enable clinical and administrative team members to manage cohorts of patients and take action to maintain a patient's health and wellbeing.

Orion Health Engage

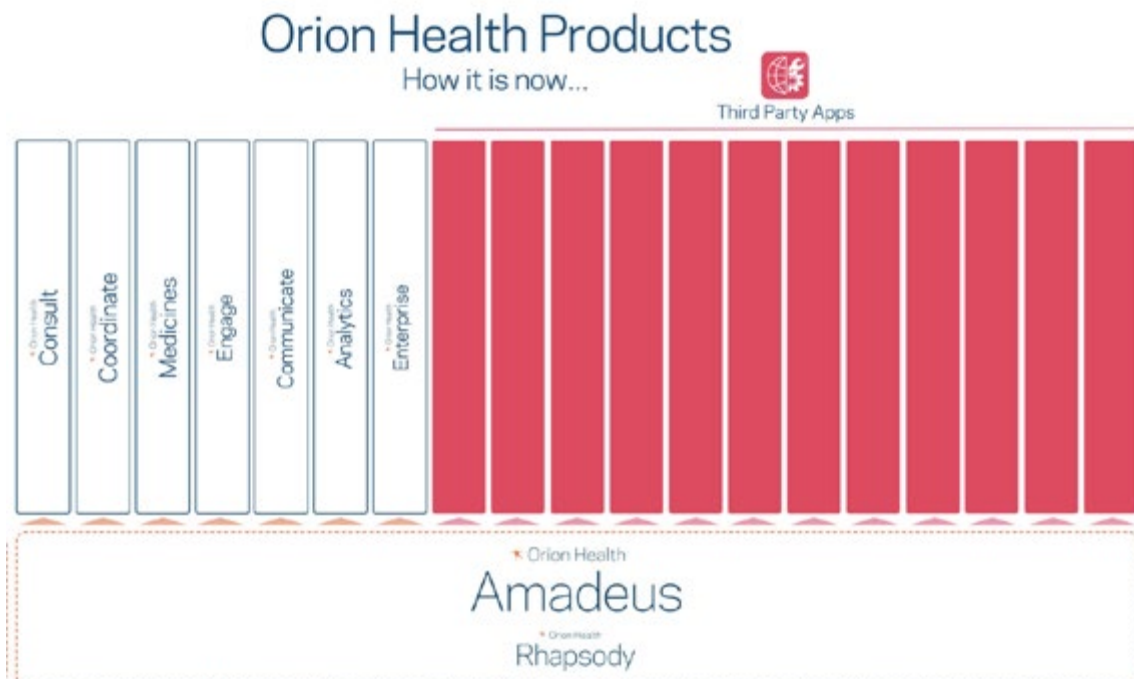
Until recently, health information belonged to everyone but the patient. Information on conditions was hard to access, diagnoses and results were closely guarded by healthcare providers. But now it's moving to your smartphone in your pocket where patients have instant access to health information and know more about their health. Consumers are increasingly demanding access to (and control over) all their data and health is no exception.

Orion Health Communicate

Orion Health Communicate provides safe and secure communication between patients, healthcare providers and organisations across mobile, desktop and electronic medical record systems (EMRs). Users anywhere can quickly send accurate patient information to other healthcare providers or even to the patient themselves.

Orion Health Services

Orion Health offers a comprehensive range of services to complement our full suite of industry leading healthcare technology solutions. Our clinicians, analysts and business advisors can help you realise the full benefit of the technology you have put in place and achieve a faster return on your investment.





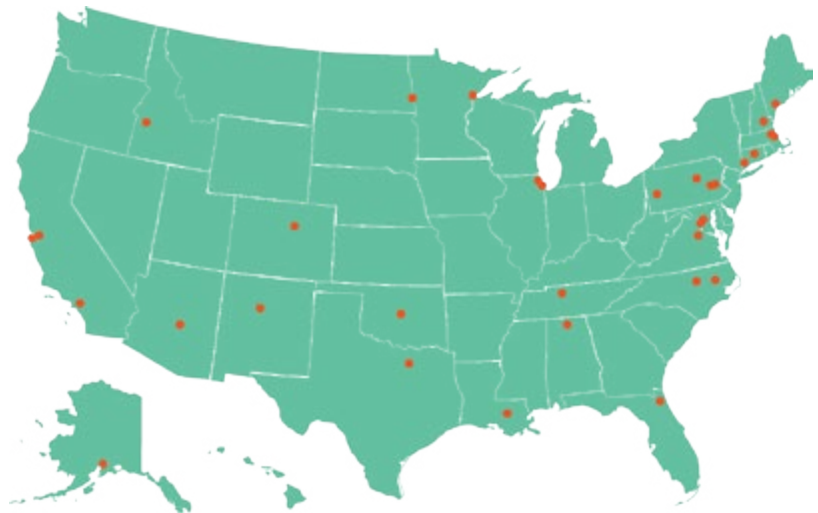
Orion Health's Customers

Orion Health currently provides its software to a number of health organisations around the world. It targets primarily two segments of the health market in North America.

1. The provider segment, including private and public hospitals.
2. The payer segment such as health insurers and governmental health providers, including a recently awarded contract with the United States Department of Defence.

KEY CUSTOMERS | UNITED STATES

Alaska eHealth Network (AEHN), Anchorage AK
 Blue Shield of CA, San Francisco CA
 Catholic Health Initiatives, Denver CO
 CHIC, Duluth MN
 Commonwealth of Massachusetts Executive office of Health and Human Services, Boston MA
 DC Department of Health, Washington DC
 DCHIE, Washington DC
 Greenville Health System, Greenville NC
 Highmark, Pittsburgh PA
 Huntsville Hospital, Huntsville AL
 Idaho Health Data Exchange, Boise ID
 Inland Empire HIE (IEHIE), Riverside CA
 KeyHie, Danville PA
 Lahey Clinic, Burlington MA
 Lehigh Valley Health Network (LVHN), Allentown PA
 Louisiana Health Care Quality Forum (LaHIE), Baton Rouge LA
 Maine HealthInfoNet, (MHIN), Portland ME
 Mary Washington Healthcare, Fredericksburg VA
 New Hampshire Health Information Organization (NHHIO), Concord NH
 New Mexico Health Information Collaborative (NMHIC), Albuquerque NM
 North Carolina HIE, Raleigh NC
 North Dakota HIE, Fargo ND
 North Texas Accountable Healthcare Partnership (NTAHP), Dallas TX
 OK State Department of Health, Oklahoma City OK
 Rush Health, Chicago IL
 Scottsdale Health Partners, Scottsdale AZ
 St. Luke's University health Network, PA
 St Vincents Medical Center, Jacksonville FL
 St. Francis Care, Hartford CT
 Sutter Health, CA
 Vanderbilt Health Access Network, Nashville TN
 Walgreens, Chicago IL
 Western Connecticut Health Network (WCHN), Danbury CT





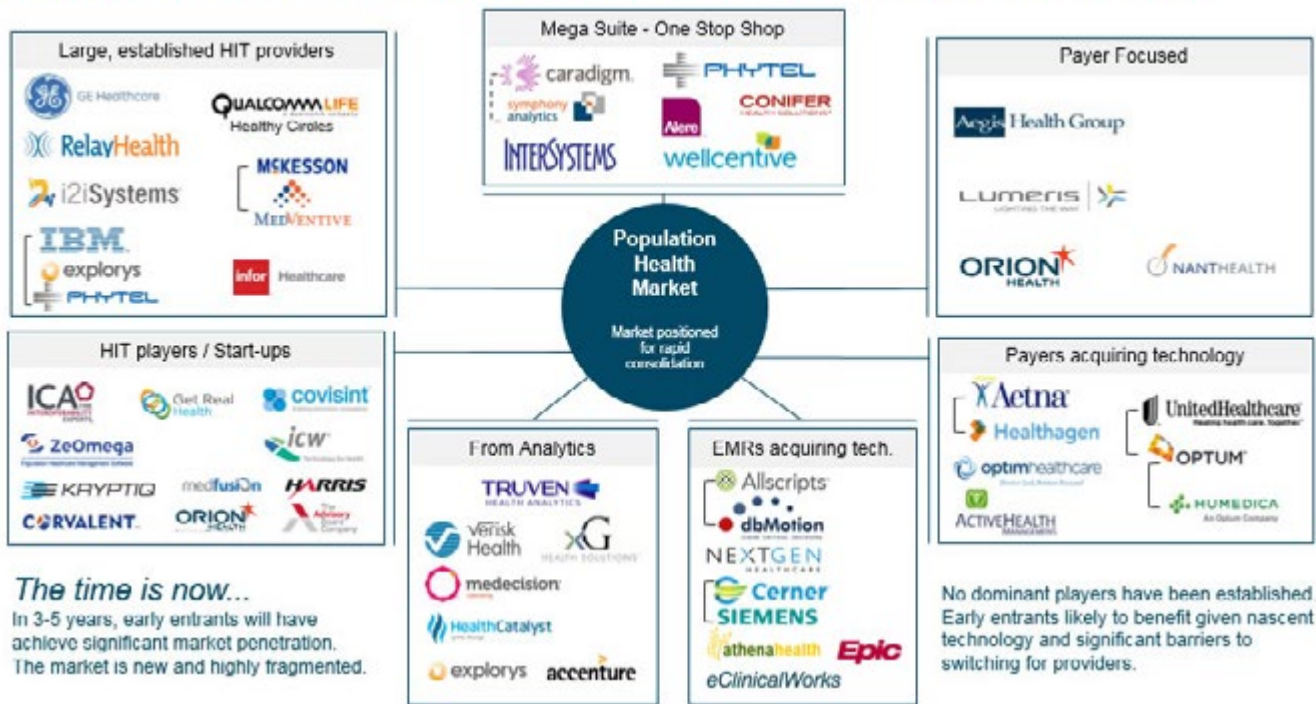
Competitive Landscape

Overview

The competitive landscape has changed and continues to change with existing specialist health firms broadening their offering, new entrants and multinational general IT companies moving into health IT. Orion Health's strength is interoperability, making data usable across platforms and format, which means even with competition coming from both sides they can help play a connector role. Gartner in completing a market survey found there was no trend to which provider survey respondents considered

to be their top competition, as the report states: "the answer supports the assertion that the market is wide open". The market is fragmented with consolidation highly likely as platforms compete for patient record numbers and be the primary provider.

POPULATION HEALTH TECHNOLOGY LANDSCAPE SUGGESTS OPPORTUNITY TO CAPTURE SHARE WITH EARLY ACTION





Selected Competitor Profiles

Epic

Epic is a privately held American firm founded in 1979 providing a range of health IT solutions. It is a top ranked provider, voted best overall software suite for the last five years (2010-2014) by hospitals and physician practices independently surveyed by KLAS. Epic develops and implements its software in house via dedicated project teams for its 355 customers worldwide. Pricing is based on a software license and support model.

Solutions include, Healthy Planet their population health and accountable care platform which supports a multi electronic medical record (EMR) ecosystem on a single patient-centric database. Epic currently has 129 million patient registries in the ecosystem with 15.3 million patient records exchanged securely on the Care Everywhere network in June 2015.

InterSystems

Like Epic, InterSystems is a privately held American company founded a year earlier in 1978, today it has clients in over a 100 countries. InterSystems is a profitable business generating around half a billion American dollars in revenue. The firm's data management, connectivity and analytics technologies are used across a number of industries, the largest of which are banking and health.

In the health sector InterSystems serves more than two-thirds of the U.S. populations through healthcare solutions that use InterSystems Cache database and integration software. Interoperability and analytics can be performed in InterSystems HealthShare a health informatics platform that can be implemented across a hospital network, community, region or nation.

Cerner

Cerner is a publicly listed on the Nasdaq stock exchange with a market cap in excess of \$20B. Net earnings for FY2014 were \$525 million USD on a revenue of \$3.4 billion USD Cerner uses a recurring software subscription revenue model as a result of HealthIntent, their population health management platform, being a SaaS product. They are a recognised leader winning six Best in KLAS 2014 awards including winning best remote hosting for the sixth consecutive year.

HealthIntent has a number of modules that can be integrated into the platform to provide a customised solution. Modules include HealthRegistries a management tool, HealthAnalytics with run analytical tools, HealthLife with acts as a patient and clinical portal.

IBM Watson Health

In 2015 IBM created a new business unit IBM Watson Health combining their existing health team with the acquired health data analytics vendor Explory and population health vendor Phytel. The business unit has a discreet budget, R&D authority and a starting staff of 2,000 employees. At the same time, they announced partners with Johnson & Johnson, Medtronic and Apple. This has signalled its strategic intent to become a major player in the transformation of health technology.





Conclusion

The North American market for health IT solutions is wide open as it goes through a period of innovative change. This has led to global competitors investing heavily while moving quickly to grab market share. Healthcare providers are reluctant to invest due to concerns around unproved benefits, the large cost and complexity of implementation amid security concerns of moving to cloud based software.

Orion Health is in both an exciting and challenging situation. Ian McCrae is a visionary with a strong belief in positioning Orion Health as a globally leader through R&D. Orion needs to understand where it should position it's Amadeus platform in the marketplace, what the addressable market in North America is, and whether their footprint should grow out or up.

Looking to the future, as Orion provides for current market demand, it must also be equipped to become the provider of choice when Precision Medicine, the final stage of innovation, becomes mainstream. Additionally, while profitability is not critical in the short-medium term as it responds to shifting market trends, the company needs to build confidence amongst investors that these changes will pay off in the long term. To achieve this Orion Health must deliver on its vision and continue to grow the business.





Appendices



Financial Information

Finances taken from 2016 Interim results

Consolidated Statement of Comprehensive Income

FOR THE SIX MONTHS ENDED 30 SEPTEMBER

	Note	6 months Unaudited 30 Sep 2015 NZ\$'000	6 months Unaudited 30 Sep 2014 NZ\$'000
Operating revenue	3	101,679	80,522
Other income		2,631	2,565
Total Income		104,310	83,087
Expenses			
Direct operating costs and expenses		(24,805)	(16,674)
Employee benefits expense		(85,757)	(72,098)
Promotional expenses		(1,807)	(814)
Administration and other expenses		(10,029)	(7,858)
Occupancy expenses		(5,157)	(5,109)
Depreciation and amortisation expense		(3,691)	(2,357)
Net foreign exchange gains		1,153	1,298
Other operating losses		(532)	(271)
	4	(130,625)	(103,883)
Operating loss	3	(26,315)	(20,796)
Finance income		1,456	107
Finance costs		(111)	(185)
Finance income/(costs) - net		1,345	(78)
Loss before income tax		(24,970)	(20,874)
Income tax (expense)/credit	5	(1,883)	6,116
Loss for the period attributable to equity holders of the Parent		(26,853)	(14,758)
Other comprehensive income for items that may be reclassified subsequently to profit or loss			
Currency translation differences		2,735	1,161
Total other comprehensive income		2,735	1,161
Total comprehensive loss attributable to equity holders of the Parent		(24,118)	(13,597)
Earnings per share			
Basic and diluted loss per share (cents)		(16.9)	(10.9)



Consolidated Balance Sheet

AS AT 30 SEPTEMBER

	Note	Unaudited 30 Sep 2015 NZ\$'000	Audited 31 Mar 2015 NZ\$'000
ASSETS			
Current assets			
Cash and cash equivalents		50,589	30,944
Term deposits		26,400	64,200
Trade and other receivables		56,482	58,680
Accrued revenue		20,390	20,025
Current income tax asset		1,494	2,469
		155,355	176,318
Non-current assets			
Accrued revenue		8,336	6,870
Deferred tax assets		662	930
Property, plant and equipment		13,733	13,028
Intangible assets		4,791	4,145
		27,522	24,973
TOTAL ASSETS		182,877	201,291
LIABILITIES			
Current liabilities			
Trade and other payables		16,015	14,024
Current income tax payable		68	199
Employee benefits		15,875	15,388
Revenue in advance		54,603	50,899
Provisions for other liabilities		2,575	2,437
		89,136	82,947
Non-current liabilities			
Trade and other payables		1,664	1,595
Revenue in advance		1,603	2,431
Provisions for other liabilities		786	656
Deferred tax liabilities		232	880
		4,285	5,562
TOTAL LIABILITIES		93,421	88,509
NET ASSETS		89,456	112,782
EQUITY			
Share capital	7	159,999	159,752
Treasury shares	8	(4,287)	(4,388)
Share-based payment reserve	8	1,701	1,257
Accumulated losses		(69,650)	(42,797)
Foreign currency translation reserve		1,693	(1,042)
TOTAL EQUITY ATTRIBUTABLE TO THE OWNERS OF THE PARENT		89,456	112,782

For and on behalf of the Board, 24 November 2015

Andrew Ferrier
Chairman

Ian McCrae
Director and Chief Executive Officer

The accompanying notes form an integral part of these financial statements





Consolidated Statement of Cash Flows

FOR THE SIX MONTHS ENDED 30 SEPTEMBER

	Note	6 months Unaudited 30 Sep 2015 NZ\$'000	6 months Unaudited 30 Sep 2014 NZ\$'000
CASH FLOW FROM OPERATING ACTIVITIES			
Cash provided from:			
Receipts from customers		109,083	91,461
Interest received		1,231	107
		110,314	91,568
Cash applied to:			
Payment to suppliers		(44,618)	(35,102)
Payment to employees		(81,386)	(65,204)
Interest paid		(17)	(185)
Taxation paid		(3,673)	(4,633)
		(129,694)	(105,124)
Net cash outflow from operating activities	12	(19,380)	(13,556)
CASH FLOW FROM INVESTING ACTIVITIES			
Cash provided from:			
Term deposits		37,800	-
Cash applied to:			
Property, plant and equipment - additions		(1,364)	(2,333)
Intangible assets - additions		(1,135)	(444)
Net cash inflow/(outflow) from investing activities		35,301	(2,777)
CASH FLOW FROM FINANCING ACTIVITIES			
Cash provided from:			
Issue of shares		-	25,717
Net cash inflow from financing activities		-	25,717
TOTAL NET CASH INFLOW		15,921	9,384
Cash and cash equivalents as the beginning of period		30,944	(928)
Effect of exchange rate on foreign currency balances		3,724	1,066
Net cash inflow		15,921	9,384
Cash and cash equivalents at the end of period		50,589	9,522
Composition of cash and cash equivalents			
Cash and cash equivalents		50,589	13,817
Bank overdraft		-	(4,295)
Total cash and cash equivalents		50,589	9,522
Term deposits - within investing activities		26,400	-
Total funds available and on deposit		76,989	9,522

The accompanying notes form an integral part of these financial statements


3. SEGMENT INFORMATION (CONTINUED)

Regional segmentation by category of product/service:

6 months to 30 September 2015 Unaudited	NA NZ\$'000	APAC NZ\$'000	EMEA NZ\$'000	Corp/Dev NZ\$'000	Total NZ\$'000
Revenue: third party					
Perpetual licences	9,702	3,386	9,703	-	22,791
Implementation services	22,264	7,193	6,836	-	36,293
Support services	9,870	5,075	4,901	-	19,846
Managed services	19,893	484	1,319	-	21,696
Other revenue	558	76	62	357	1,053
Operating revenue	62,287	16,214	22,821	357	101,679
Segment operating profit/(loss): third party					
Inter-segment transactions	(3,035)	(453)	(6,093)	9,581	-
Segment operating profit/(loss)	2,002	2,779	1,107	(33,356)	(27,468)

6 months to 30 September 2014 Unaudited, Restated	NA NZ\$'000	APAC NZ\$'000	EMEA NZ\$'000	Corp/Dev NZ\$'000	Total NZ\$'000
Revenue: third party					
Perpetual licences	7,623	8,543	3,735	-	19,901
Implementation services	21,460	8,161	6,106	-	35,727
Support services	7,734	4,505	2,131	-	14,370
Managed services	8,389	751	545	-	9,685
Other revenue	375	68	80	316	839
Operating revenue	45,581	22,028	12,597	316	80,522
Segment operating profit/(loss): third party					
Inter-segment transactions	(421)	(6,980)	(2,394)	9,795	-
Segment operating profit/(loss)	(832)	2,955	(161)	(24,056)	(22,094)

Reconciliation from segment operating loss to consolidated operating loss:

	6 months Unaudited 30 Sep 2015 NZ\$'000	6 months Unaudited 30 Sep 2014 NZ\$'000
Segment operating loss	(27,468)	(22,094)
Net foreign exchange gains	1,153	1,298
Operating loss	(26,315)	(20,796)



USA State Health Spend Data

State	Population (2010 census)	Total Health Spending by State of Provider (2009) (millions)	Avg. Annual % Growth (between 1991-2009)	Health Spending per Capita (2009)	Avg. Annual % Growth per Capita (between 1991-2009)	Population over age 65 (2010)	Life expectancy at birth, in years (2009)	Hospital Beds per 1000 people (2014)
Alabama	4,779,736	\$29,126	7.9%	\$6,272	5.1%	13.8%	75.4	3.08
Alaska	710,231	\$6,185	9.2%	\$9,128	7.3%	7.7%	78.3	2.22
Arizona	6,392,017	\$36,349	9.5%	\$5,434	4.5%	13.8%	79.6	1.98
Arkansas	2,915,918	\$17,130	8.2%	\$6,167	5.4%	14.4%	76.0	3.13
California	37,253,956	\$231,026	7.7%	\$6,238	4.8%	11.4%	80.8	1.79
Colorado	5,029,196	\$30,763	8.6%	\$5,994	5.0%	10.9%	80.0	1.96
Connecticut	3,574,097	\$30,328	8.1%	\$8,654	5.5%	14.2%	80.8	2.17
Delaware	897,934	\$7,247	9.3%	\$8,480	6.2%	14.4%	78.4	2.19
District of Columbia	601,723	\$8,196	6.4%	\$10,349	4.5%	11.4%	76.5	5.38
Florida	18,801,310	\$132,342	9.3%	\$7,156	5.0%	17.3%	79.4	2.69
Georgia	9,687,653	\$54,302	8.9%	\$5,467	4.4%	10.7%	77.2	2.42
Hawaii	1,360,301	\$8,899	8.0%	\$6,856	5.5%	14.3%	81.3	2.02
Idaho	1,567,582	\$8,199	9.2%	\$5,658	5.6%	12.4%	79.5	2.03
Illinois	12,830,632	\$84,197	7.0%	\$6,756	5.2%	12.5%	79.0	2.45
Indiana	6,483,802	\$43,153	8.0%	\$6,666	5.5%	13.0%	77.6	2.61
Iowa	3,046,355	\$19,838	7.2%	\$6,921	5.7%	14.9%	79.7	3.13
Kansas	2,853,118	\$18,780	7.5%	\$6,782	5.5%	13.2%	78.7	3.45
Kentucky	4,339,367	\$28,078	8.4%	\$6,596	5.8%	13.3%	76.0	3.17
Louisiana	4,533,372	\$30,508	7.7%	\$6,795	5.4%	12.3%	75.7	3.24
Maine	1,328,361	\$10,865	8.8%	\$8,521	7.0%	15.9%	79.2	2.54
Maryland	5,773,552	\$41,995	8.3%	\$7,492	5.7%	12.3%	78.8	2.01
Massachusetts	6,547,629	\$62,780	8.0%	\$9,278	5.9%	13.8%	80.5	2.38
Michigan	9,883,640	\$64,281	6.8%	\$6,618	5.2%	13.8%	78.2	2.46
Minnesota	5,303,925	\$40,440	8.0%	\$7,409	5.9%	12.9%	81.1	2.67
Mississippi	2,967,297	\$18,552	8.5%	\$6,571	6.3%	12.8%	75.0	4.17
Missouri	5,988,927	\$42,734	7.8%	\$6,967	5.8%	14.0%	77.5	3.07
Montana	989,415	\$6,354	8.4%	\$6,640	5.9%	14.8%	78.5	3.6
Nebraska	1,826,341	\$12,845	7.9%	\$7,048	6.2%	13.5%	79.8	3.55
Nevada	2,700,551	\$15,284	10.5%	\$5,735	4.9%	12.0%	78.1	1.95
New Hampshire	1,316,470	\$10,021	9.7%	\$7,839	6.6%	13.5%	80.3	2.14



New Jersey	8,791,894	\$63,329	8.2%	\$7,583	5.3%	13.5%	80.3	2.3
New Mexico	2,059,179	\$12,655	9.3%	\$6,651	6.2%	13.2%	78.4	1.81
New York	19,378,102	\$162,740	7.6%	\$8,341	5.5%	13.5%	80.5	2.8
North Carolina	9,535,483	\$60,581	9.6%	\$6,444	6.0%	12.9%	77.8	2.22
North Dakota	672,591	\$5,408	7.7%	\$7,749	6.1%	14.5%	79.5	4.25
Ohio	11,536,504	\$81,776	7.4%	\$7,076	5.5%	14.1%	77.8	2.9
Oklahoma	3,751,351	\$23,072	7.8%	\$6,532	5.8%	13.5%	75.9	2.9
Oregon	3,831,074	\$25,296	8.5%	\$6,580	6.0%	13.9%	79.5	1.7
Pennsylvania	12,702,379	\$99,576	7.6%	\$7,730	5.4%	15.4%	78.5	2.98
Rhode Island	1,052,567	\$8,910	7.9%	\$8,309	6.0%	14.4%	79.9	2.13
South Carolina	4,625,364	\$27,682	9.3%	\$6,323	5.8%	13.7%	77.0	2.53
South Dakota	814,180	\$5,974	8.4%	\$7,056	6.0%	14.3%	79.5	4.79
Tennessee	6,346,105	\$42,364	8.4%	\$6,411	5.2%	13.4%	76.3	3.06
Texas	25,145,561	\$149,908	8.9%	\$5,924	5.2%	10.3%	78.5	2.28
Utah	2,763,885	\$14,585	9.3%	\$5,031	5.3%	9.0%	80.2	1.77
Vermont	625,741	\$4,292	8.6%	\$7,635	6.7%	14.6%	80.5	1.92
Virginia	8,001,024	\$48,887	8.7%	\$6,286	5.6%	12.2%	79.0	2.19
Washington	6,724,540	\$45,396	8.9%	\$6,782	5.6%	12.3%	79.9	1.7
West Virginia	1,852,994	\$12,931	7.5%	\$7,667	6.2%	16.0%	75.4	3.7
Wisconsin	5,686,986	\$40,446	7.9%	\$7,233	6.0%	13.7%	80.0	2.2
Wyoming	563,626	\$3,258	8.2%	\$7,040	6.6%	12.4%	78.3	3.14
Total	308,745,538	\$2,089,862	8.1%	\$6,815	5.3%	13.0%	78.9	2.47





For a Successful Journey to Population Health

Making current Clinical and Patient Information available across all Settings, across all Providers

CHALLENGE

Patients and Clinical Information not available to Providers

BARRIERS

- | | |
|--------------------------|------------------------|
| No Data Integration | Data and Process Silos |
| Isolated Local Providers | Incomplete Records |
| Outdated Information | Multiple Systems |
| No Secure Exchange | Limited Data Sharing |

SUCCESS

Scottsdale Health Partners (SHP) launched in 2012 a physician-led Clinical Integration Network and ACO to transform healthcare delivery in the greater Scottsdale, Arizona community. In 2014, SHP became the first and only ACO in the Medicare Shared Savings Program to earn a performance payment in Arizona.

- | | | |
|----------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------|
|
1 million
of patient records
in the HIE |
\$3.7 million
generated in savings for the
Federal Government in 2014 |
\$1.8 million
earned in MSSP shared
savings in 2014 |
|----------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------|

SHP HEALTH INFORMATION EXCHANGE ROLLED OUT IN 2014 WITH OVER 1,100 CLINICIANS TRAINED AND A WIDESPREAD PRACTICE ADOPTION.

GOALS

Achieve the coveted Triple Aim

- | | | | | |
|--------------------------------------------------------------|--|------------------------------------------------------|--|----------------------------------------------|
|
POSITIVE PATIENT
EXPERIENCE
<small>PATIENT</small> | |
INCREASED
QUALITY
<small>COMMUNITY</small> | |
REDUCED
COST
<small>PAYERS</small> |
|--------------------------------------------------------------|--|------------------------------------------------------|--|----------------------------------------------|

3 Hospitals **220** Practices
690 Primary Care Providers **35,000** Patient Lives

STRATEGIES

Partnering with Orion Health to support initiatives

- | | | |
|------------------------|---------------|---------------------------------|
|
CARE
MANAGEMENT |
ANALYTICS |
INTEGRATED DATA
EXCHANGE |
|------------------------|---------------|---------------------------------|

OUTCOMES

Improved Quality / Reduced Cost /
Improved Patient Satisfaction
with **25** staff members

2.65 to 3.94
STAR rating
improvement in one
year for Medicare
Advantage plan

40-45%
better readmission
rates than market

10%
of cost reduction
reported by Medicare
Advantage Plan in
2013 and another
4.5% in 2014

**ENDLESS
COMMENTS**
and stories from
happy patients helped
by care coordinators

"Orion Health HIE allows us to give our clinicians a Longitudinal Patient Record that pulls together a lot of otherwise disparate clinical data. We are working with them on the MSSP product which is sorely missing from the technology space to support ACOs. We are also working closely with Orion Health on a care coordination product. We are taking an innovative approach to support ambulatory care management. There are no other good solutions in this market today."

FARON THOMPSON, COO, SCOTTSDALE HEALTH PARTNERS



Creating Comprehensive Data Exchange for Improving
Care Management & Clinical Quality across Northern California

CHALLENGE

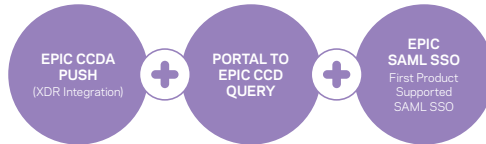
Lack of clinical information sharing across networks of care

BARRIERS

- | | |
|--------------------------|------------------------|
| No Interoperability | Data and Process Silos |
| Isolated Local Providers | Incomplete Records |
| Outdated Information | Multiple Systems |
| No Secure Exchange | In and Out of Network |

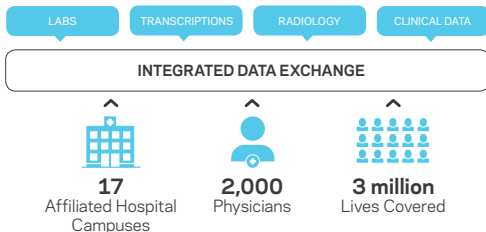
UNIQUE CONFIGURATION

Uses Initiate as the MPI which is hosted by Sutter and connected to SaaS HIE



GOALS

Support Providers



STRATEGIES

Sharing Clinical Data including:

- Patient's lab
- Medications
- Transcription
- Allergies
- Radiology
- Problem List, etc.

SUCCESS

Health Information Exchange Roll Out in 2014
 Medications and Allergies CCD Parsing live in September 2015

- 13.5 million**
Unique Patient Encounters
- 1.9 million**
Rad Results Epic Radiant Interface (Radiology)
- 2.9 million**
Epic ID's
- 32.2 million**
Transcribed Documents

"As we look to the future, our goal is to partner with Orion Health, Epic and other vendors in the decision support space. We want decision support that isn't just based on data within the EHR, but within the HIE as well!"

DR. CHRIS JAEGER, CMIO AND VP OF MEDICAL INFORMATICS AT SUTTER HEALTH



Successful Transformation to an Integrated Electronic Health Information System

CHALLENGE

Provide a fully Integrated and Coordinated network of ehealth systems with decision support at the point of care

BARRIERS

Providers with:

- Too little time
- Too little information
- Too little clinical support
- No longitudinal view of patient
- No outcomes tracking
- Not enough evidence-based care

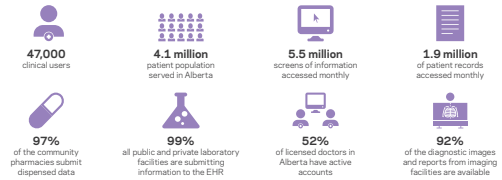
Patients with:

- Long wait time
- High utilization of ED visits
- No community care
- No chronic disease control
- No ongoing follow-ups
- No integrated care

SUCCESS

Impressive Adoption

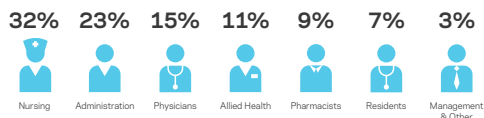
Alberta is home to Orion Health's largest HIE implementation in North America, called Alberta Netcare. It has been in production since March 2006 and integrates and connects over 50 eHealth systems. It accommodates approximately 5,000 concurrent users at any given time.



GOALS

Support Clinical Decisions and Improve Quality of Care with accessible real-time information and decision support for all stakeholders

ALBERTA USER STATISTICS



STRATEGIES

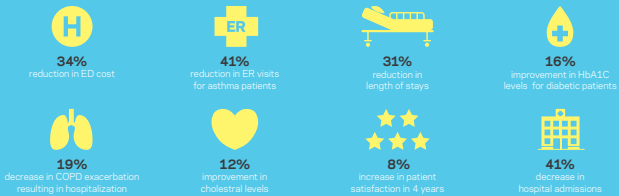
Partnering with Orion Health to support new patient centered models of care and deliver essential data in a timely manner



OUTCOMES

Improved Care / Reduced Cost / Improve Patient Satisfaction

Specific outcomes of the Chronic Disease Management project are impressive. These statistics were measured between years 3 and 4 of the program (Briggs 2009-2012):



"I had a young patient diagnosed with a UTI infection (or thought to have been). The next expected intervention would be surgical. The results in the EHR showed that the previous two suspected UTIs were not really UTIs. The surgical intervention which has not only a high cost but also a morbidity risk was averted."

PHYSICIAN, EDMONTON, ALBERTA



A National Leader in Health Information Exchange Innovation

Maine takes HIE to New Levels

CHALLENGE

Lack of timely & actionable medical Information across maine state

BARRIERS

A high proportion of the provider population are not using certified EHRs (Behavioral Health and LTC) - no connectivity
Competing workflows between EHR and HIE

Lack of incentives to use HIE by those paid for through fee-for-service
Interoperability standards do not support comprehensive data sets for analytics

SUCCESS

Live in 2009 / High adoption / Sustainable



Successful financial model for HIE growth and sustainability



Legislation passed to include mental and behavioral health data in the HIE with patient permission

Expanded use of data to include research and development of 12 month risk models for:

- ED admission
- Readmissions
- Cost of care
- Heart Attack
- Stroke
- Mortality
- Development of Type 2 diabetes

GOALS

Drive improvements in Healthcare efficiency, quality, costs & value

Deliver trusted health information exchange services that help the healthcare community create lasting system-wide improvements in the value and quality of patient care.

Offer value-added services and tools to support providers in their IT adoption and use of data

Expand HealthInfoNet and analytics services into regional and national markets

2016 PRIORITIES

Workflow Integration, Analytics Expansion, Claims Integration

STRATEGIES

New Services & Programs

Partner with Orion Health and other vendors to advance interoperability and workflow integration

Incorporate new data sets - Long-term care, Social Determinants, Administrative data

Improve breadth and scalability of data processing and Invest in data-driven evidence-based research

OUTCOMES

LARGE DATABASE



1.5 million of individual records in HealthInfoNet



3.6 million clinical messages sent to support ACOs



ALL hospitals connected (51 bi-directional)

HIGH ADOPTION



97% (1.2m) of all Maine residents have their medical information into the HIE



227,842 patient records accessed in 2014 by clinical users



445 ambulatory sites connected (328 bi-directional)

HIGH CONNECTIVITY



1.2% patients opted out



84,804 real-time event of care email notifications sent



594,893 Public Health transmissions to Maine CDC

"HealthInfoNet enables our office to quickly and efficiently obtain medical records - especially to track down prior diagnostic imaging for our pulmonary patients. It also support our physicians to ensure ease of continuity of care for patients transferred between our intensive care unit and other facilities

PATIENT SERVICE REPRESENTATIVE, MID COAST MEDICAL GROUP, MAINE



USA Office Location





Press Releases

Orion Health announces global launch of Amadeus, Accelerates move to Precision Medicine

Dec. 9, 2015

<https://orionhealth.com/press-release/orion-health-announces-global-launch-of-amadeus-accelerates-move-to-precision-medicine/>

Auckland, New Zealand – Orion Health™ (OHE:NZX/ASX), the New Zealand technology company at the forefront of the revolution in healthcare, is firing up its global offering by launching Amadeus, a platform that will enable highly personalised healthcare and the implementation of Precision Medicine. CEO Ian McCrae says Amadeus is at the forefront of Precision Medicine – the newest frontier in modern healthcare.

“Precision Medicine is enabled when all information unique to an individual is combined to identify preventative care and treatments which will be effective for them based on genetic, environmental and lifestyle factors,” says Mr McCrae.

“Today many factors impact health outcomes, yet currently, only a few will be taken into account when healthcare decisions are being made. Amadeus will enable doctors to get the insights they need to help them make accurate diagnoses and provide the optimal treatment,” he says. “In addition, patients will increasingly have the information they need to be active participants in their own healthcare.”

Amadeus is an open-data platform that scales to aggregate and manage different types of health-related data. Orion Health has evolved its industry-leading population health management platform to accommodate huge data file sizes, including genomic (the genetic makeup of the patient) information. Mr McCrae says Amadeus has been designed to encourage collaboration and harness the expertise of leading healthcare vendors from across the health sector.

“What is particularly exciting is that we are delivering Amadeus as an open platform, upon which third parties can innovate. The platform’s APIs (Application Program Interfaces) will enable third-party applications to have access to rich data and services so that they can provide additional services that will benefit both doctors and their patients,” says Mr McCrae.

Patient privacy is of paramount importance, which is why Amadeus features an advanced privacy service that provides granular access to data elements based on user roles and the sensitivity of the data.

Orion Health’s Executive Vice President of APAC, Darren Jones, believes that Precision Medicine will dramatically change healthcare as we know it today.

“Current models of care delivery focus on applying treatments to conditions, not individuals. The consequence of that “one size fits all” approach is that individuals don’t receive treatments that take into account factors that make them unique – their family and clinical history, environmental and social factors, and importantly their genome, which when combined with their information can reveal treatment and prevention strategies right for them,” says Mr Jones.

Amadeus combines Orion Health’s extensive data integration experience with the scalability and performance of its modern technologies Cassandra™, Spark™ and ElasticSearch™. It has a distributed architecture to handle massive volumes of high velocity data.

The modern data platform incorporates predictive modelling to identify the most at-risk patients in a population to drive rapid decision-making, and will leverage machine-learning to make predictions on its immense data.

Orion Health is already making strides into Precision Medicine and last week joined up with innovative New Zealand medical technology companies Medtech and Computer Sciences Corporation (CSC) to work together to deliver a world-leading Precision Medicine solution for New Zealand.

McCrae says that Amadeus goes beyond delivering the technology for today’s population health management needs - it future-proofs organisations for emerging models of care.

“Effective collaboration between innovative companies is the key to delivering world-class solutions,” says Mr McCrae.

“This is a critical evolution of our business, and for healthcare generally. Imagine a world where everyone receives the treatment that’s perfect for them. That’s what we’re aiming for.”





Orion Health Named a Leader in IDC Health Information Exchange MarketScape Report

July 16, 2015

<https://orionhealth.com/press-release/orion-health-named-a-leader-in-idc-health-information-exchange-marketscape-report/>

Boston, MA - Orion Health™, a population health management and health-care integration company, today announced that it has been named a leader in the IDC MarketScape report, titled "U.S. Health Information Exchange Platform Solutions 2015 Vendor Assessment." Orion Health is one of only seven vendors evaluated in the report, all of which were selected based on their market share, market penetration, and growth potential.

This IDC MarketScape report, which provides an evaluation of the leading health information exchange (HIE) technology vendors in the healthcare industry, specifically highlights Orion Health's Healthier Populations Solution Suite, a comprehensive set of interoperability and data aggregation tools including the following products:

Open Platform: Combines the company's world-class integration engine technology with a highly-scalable and flexible modern database architecture, making it possible for healthcare organisations to drive informed action across various clinical settings.

Orion Health Rhapsody® Integration Engine: Provides seamless connectivity between legacy and next-generation health systems, simplifying complex healthcare interoperability.

Clinical Portal: Grants secure, online access to all users in the community involved in patient care to a single, accurate patient record that contains centralised data from all the connected source systems.

eHealth Exchange Gateway: Creates a secure, standards-based, auditable and bi-directional connection between Orion Health and the eHealth Exchange enabling users to share and query complete patient information with other HIEs and federal agencies.

The report noted that one of Orion Health's primary assets is its Rhapsody Integration Engine— as its ability to integrate with any HIT system enables true interoperability. The report also cited that another Orion Health strength is that it uses open APIs, so its clients and third-party developers can develop their own applications to run on the Orion Health Open Platform, and that the Open Platform is unique in that it uses Apache Cassandra, an innovative, open source distributed database management system.

Additionally, Orion Health's big data platform is able to ingest and process clinical, claims and less traditional data types, such as data from wearables and genomics, in real-time.

"Healthcare organisations seeking population health and accountable care solutions built on a strong interoperability foundation should consider Orion Health," recommends Lynne A. Dunbrack, research vice president, IDC Health Insights.

"With its origins as a leader in health information exchange, our Healthier Populations Solution Suite has set the standard for data-driven end-to-end population health management," said Paul Viskovich, Global President at Orion Health. "Being recognised by IDC for not only our easy-to-use integration engine, but also our robust technology that supports population health and ACO initiatives, is something we are very proud of and is a true testament to the breadth, depth and flexibility of our solutions. We plan to continue to invest in research and development and continue to bring leading, next-generation technologies to the healthcare market."

Champions Trophy

Case Competition 2016



BUSINESS SCHOOL