The Life Sciences Universe™: A Foundation for Integration in Healthcare & Life Sciences



Real-Time

Repository Design & Development

1 Private and Confidential

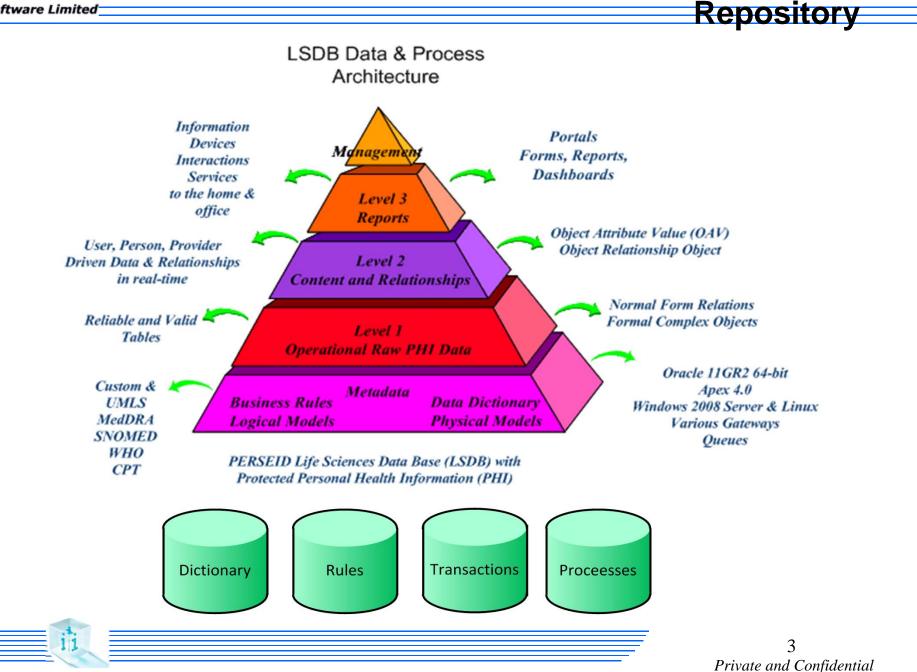
Integrated Applications, Vocabulary, Transaction Processing, **Rule Engine & One Logical Database** Patient Provider Transactions Medical Device Internet Webservices Care Manage Applications Internet Cloud --Analytics Server Processes APEX Processes --Case Management --EMR/PHR/CDR --Claims & Encounters --Signal Detection HTML HTML --UŘ LSDB Data & Process Architecture --Credentialing --Reporting & Research Transactions - Clinical --Messages Informatio Portals Forms, Reports, Dashboards PL/SQL Devices --Disease Management Interactions Services Rule engine -- Server Processes Transactions - Adminstrative --EAP -- Transactions to the home & office Level 3 --Disability Repo. Transactions - Financial Object Attribute Value (OAV) Object Relationship Object --Worker's Compensation User, Person, Provider Driven Data & Relationships --Reinsurance Level 2 in real-time ntent and Relat Normal Form Relations Formal Complex Objects Reliable and Valid 복 Oracle Databases Tables **Operational Raw PHI Data** Transaction Oracle 11GR2 64-bit Custom & UMLS MedDRA SNOMED WHO CPT - Real-time and transaction processing Processing Apex 4.0 Windows 2008 Server & Linux Various Gateways **Business Rules** Data Dictio - Central control for all processing -- Oracle Queues ogical Model Physical Mode - Single Audit point -- Real-time sessions Queues PERSEID Life Sciences Data Base (LSDB) with - PL/SQL Function Calls ed Personal Health Info - Transaction Queues -- transactions -- webservices Diction Rules 2

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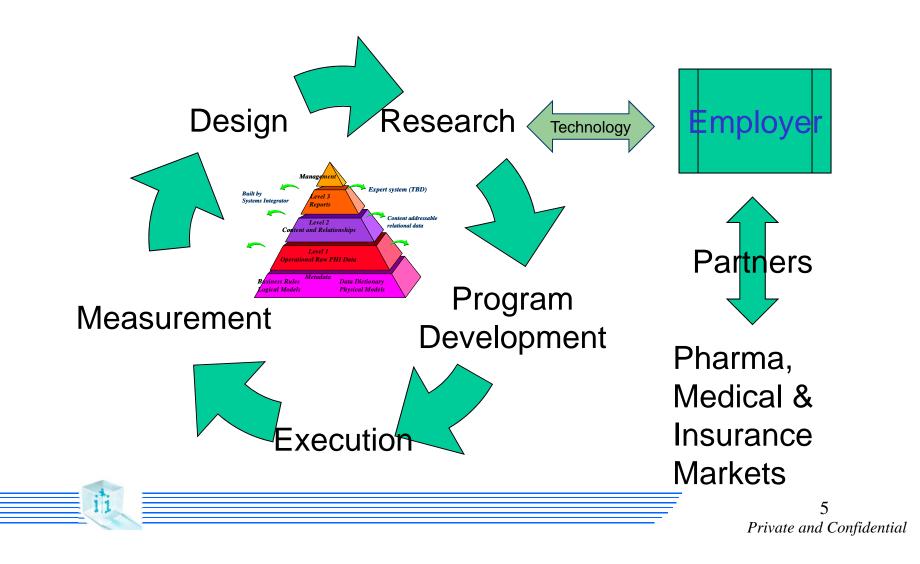
- Integrate Encrypted, Blinded, Free Text Data into One System
 - Integrate administrative, financial and clinical data
- Active Repository
 - Analytical architecture combined with classifications and signal detection
- Real-time environment
 - The right care at the right time at the right price at the right place
- Platform for Intellectual Property Development
 - Applications + Databases (125) + Systems Integration Platform
- Highest Degree of line of business integration
 - CDR/PHR/HER + Insurance + Disability + Wellness + Disease Management



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Healthcare Program Development Cycle



- Wellness & Prevention
- Incident, Case & Care Management
- Patient Care / Patient and Provider Portal
- Online Forums / Clinical Trial Development and Questionnaires
- Online Insurance and Wellness Services and Order Entry
- Document Library with full text indexing and search
- Image Library Management
- Real-time medical sensor data capture (Harvard Code Blue)
- Research (Econometrics/Healthcare Statistics/Six Sigma)
- Claims and Encounters
- CDR/PHR
- Center of Excellence Management

- Customer Relationship Management & Billing
 - Uses SaaS model for customers or unique Oracle Instance per client
- Research
 - Device/Pharmaceutical/Exposures/Occupational Health
 - Healthcare Programs & Services
- Integrated Care & Wellness
 - Clinical Improvement Programs
 - Personal Health & Group Health
 - Clinical & Social Services
 - Integrated Case and Incident Management
 - Occupational Health, Safety & Surveillance
 - Disability and Workers Compensation
 - Group Health Insurance and Reinsurance

- Integrated Care and Case Management
 - Clinical Data Repository
 - Self-reporting and Personal Health Record
 - Enrolled and non-enrolled service and program creation
 - Order Entry (structured, unstructured)
 - QA/QC/QI Programs, Protocols and clinical sets
 - Metrics, Goals, Objectives and Hypotheses
 - Documents and DICOM Image management
 - Facility management, scheduling and services
 - Center of Excellence Design and Development
 - Remote personal and home data collection
 - Web service interface for device communications
 - Research and Clinical Trial protocol development

- Insurance Related
 - Enrolled & Non-enrolled programs and services
 - Inpatient & Outpatient Care
 - Group Health Programs & Personal Health
 - Workers Compensation / Disability
 - Self Insured, Insured and Reinsured Healthcare & Disability
- Sites and Portals
 - Clinical forums
 - Patient forums
 - Full text indexing and searching
 - Remote provider and patient tracking and order entry
 - Patient / Hotel / Facility / Long-term stay family portal

Conclusion

 Combining employer data with the capabilities of Perseid and Partners using the Perseid Software Life Sciences Universe[™] as the systems integration and information management platform enables state-of-the-art patient care and clinical improvement for employers and otehrs and instantly launches the Partner into the next generation or "future state" of U.S. healthcare



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