FAMILYSEARCH, INTL.

PASIG

May 10-12, 2011
1. Non-Profit

2. Formerly Genealogical Society of Utah (GSU)
   - Primary funding from member donations to The Church of Jesus Christ of Latter-day Saints (LDS Church)

3. 1,200 employees
   - 100s full time volunteers
   - Hundreds of 1,000s of part time volunteers

4. Mission: Document and publish the family of mankind
INTERESTING DIMENSIONS

Motivation: Belief that it’s possible for the family unit to survive beyond the grave

• No such thing as a “revenue stream” at FamilySearch
• Product is provided at no charge
• Yet, we work side by side with for-profit companies in this space
• Preservation time frame: In perpetuity
A Bit of History

- Always serious about records keeping
- Established in 1894
- Originals and paper copies
- Started microfilming in 1938
FAMILY SEARCH TODAY

• 3.4B film images on 2.4M rolls of microfilm
• 400M digital images, 3B indexed names
• Stored in “The Granite Mountain Records Vault”
FamilySearch Today

- 105 countries
- 210+ active cameras
- 20M volunteer hours/year
- Archives, parishes, civic registries, oral histories
- 60M field captured images per year
- Converting 300M images per year from microfilm to digital
# Genealogical Records

**England Durham 33050 DDR EA PBT 2 045 00107 (OGU)**

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**BAPTISMS solemnized in the Parish of Blandford in the County of Dorset in the Year 1833**

<table>
<thead>
<tr>
<th>Date</th>
<th>Child's Name</th>
<th>Father</th>
<th>Mother</th>
<th>Occupation</th>
<th>Place of Residence</th>
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</thead>
<tbody>
<tr>
<td>June</td>
<td>John Thomas</td>
<td>James</td>
<td>Elizabeth</td>
<td>Farmer</td>
<td>Blandford</td>
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<tr>
<td>Aug</td>
<td>Jane Mary</td>
<td>John</td>
<td>Jane</td>
<td>Servant</td>
<td>Blandford</td>
</tr>
<tr>
<td>Oct</td>
<td>William John</td>
<td>John</td>
<td>Mary</td>
<td>Shoemaker</td>
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</tr>
</tbody>
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</thead>
<tbody>
<tr>
<td>Nov</td>
<td>Mary Catherine</td>
<td>John</td>
<td>Jane</td>
<td>Housewife</td>
<td>Blandford</td>
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<tr>
<td>Dec</td>
<td>Richard John</td>
<td>John</td>
<td>Jane</td>
<td>Farmer</td>
<td>Blandford</td>
</tr>
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<td>Jan</td>
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</thead>
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<tr>
<td>Feb</td>
<td>John Thomas</td>
<td>James</td>
<td>Elizabeth</td>
<td>Farmer</td>
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</tr>
<tr>
<td>Mar</td>
<td>Jane Mary</td>
<td>John</td>
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GENEALOGICAL RECORDS
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THE DIGITAL "PIPELINE"
Providers
- A variety of sources of digital images, such as cameras and scanners
  - Provided by FamilySearch projects and others

Ingest and Processing Center
- Divided between two data centers in the Salt Lake City area
  - Provides initial image processing
  - Routes results to storage locations

Dissemination Store
- Datacenter located on the east coast
  - Primary access repository

Preservation Store
- Dedicated datacenters
  - Geographically dispersed
  - Limited access

Archive Processes
- Processes that use images to generate other archive information

Archive users
- Researchers using images for genealogical research
Preservation 2.0 Status

1. Current
   - \( \approx 2 \text{ PB/copy} \) (2 copies)

2. Forecasted Ingest by EOY 2011
   - \( \approx 11 \text{ TB/day} \times 2 \text{ copies} \)

3. Expectation
   - 100s of PB within a decade
Published Images on FamilySearch

2011 Target Images

- 2007 Q1: 41
- 2007 Q2: 56
- 2007 Q3: 84
- 2007 Q4: 99
- 2011: 280

Total: 161.6 millions
Published Records on FamilySearch

Multi-billion dollar irreplaceable asset

2011 Target Records
Granite Mountain Records Vault

- Operational since 1962
- Constructed as a storage facility to safeguard the microfilm master copies of records
- ≈ 65,000 sq. ft. total
  - ≈ 50,000 sq. ft. deep storage
  - ≈ 15,000 sq. ft. operations
Active Preservation Site

Site Utilization

Utilized Site
- Improved: 4 Acres
- Expansion: 1 Acres
- Security: 17 Acres
- Managed Buffer: 9 Acres
- Parking /Access: 6 Acres
- Total All: 37 Acres

Unused/Available: 20 Acres
PRINCIPLES FOR PRESERVATION SITE DESIGN

1. Asset protection (long/short term) vs. availability
2. Adaptability (growth, changing technology, etc.)
3. Minimize human involvement
4. Redundancy
   • Power
   • Environmental controls
   • Natural disasters
   • Geographically dispersed
   • Number of copies
   • System
PARTNER: TESSELLA

- Attitude towards “openness”
  - Back-end – strong APIs and robust SDK
  - Collaborative development
- Partner relationship (vs. customer)
  - Flexible/adaptable framework
  - Drive industry standards
- System solution separation (failure point risk reduction)
Observations:

1. In 2011, digital preservation is still an emerging technology
2. Preservation is core to our mission – we have to “get it right”
3. Every reason to share best practices – we look for collaboration opportunities
4. Internally, FamilySearch will challenge assumptions and stretch boundaries
FamilySearch Contacts

- Scott Bean – Strategic Relations (sbean@familysearch.org)
- Randall Stokes – Architect (stokesrk@familysearch.org)
- Jason Pierson – Product Manager (jpierson@familysearch.org)