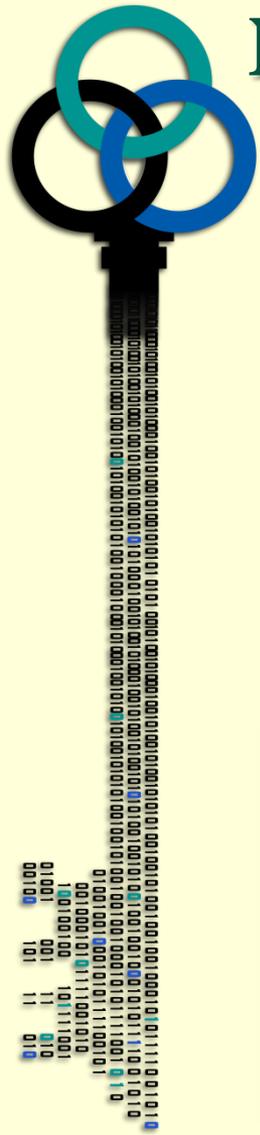




NSTIC Key Team AuthentID Solution: Eliminating Passwords via Strong Authentication

Brad McGoran
Exponent, Inc.





Meet Jane...

- Tech-savvy
- Young professional
- Works at Dept. of State

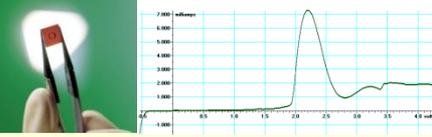




Smartphone recognition

- Detects watch
- Prompts for PIN
- Unlocks
- Locks





Laptop recognition

- Detects watch
- Prompts Fingerprint scan
- Account access privileges





Other authentication uses

- Office security
- Age identity
- Social media apps

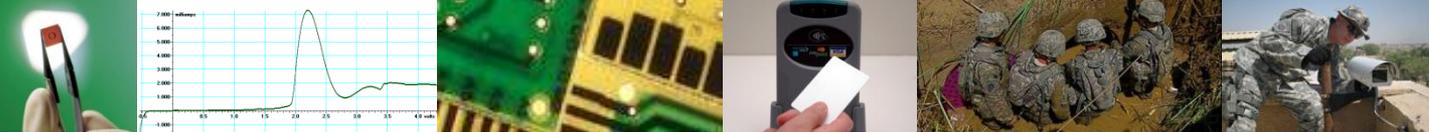




Meet Jon

- Not too tech-savvy
- Uses same passwords
- Writes his passwords down





Team Members



Pilot Partners



Supporting Partners





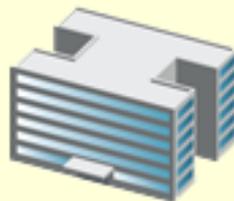
Guiding Principles

<p>Privacy-Enhancing and Voluntary</p>	<ul style="list-style-type: none"> • Granular and interactive control over data • Third-party identity providers enable anonymity and privacy
<p>Secure and Resilient</p>	<ul style="list-style-type: none"> • Passwords replaced by secure credentials stored in convenient authentication devices • OPACITY protocol provides security of transactions between authentication and client devices
<p>Interoperable</p>	<ul style="list-style-type: none"> • Based on SAML, Global Platform, and ANSI standards • Compatible with FICAM and PIV infrastructure • Enables citizen-business and citizen-government transactions
<p>Cost-Effective and Easy to Use</p>	<ul style="list-style-type: none"> • User-friendly, convenient authentication devices with intuitive interfaces • Devices leverage current technology for cost-effectiveness



System Architecture

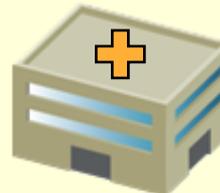
- **Authentication Device**
 - Container for a secure credential
- **Client**
 - Accesses and uses the secure credential
- **Authenticator**
 - Verifies authenticity of credential
- **Relying Party**
 - Entity needing verification of identity



Social



Government

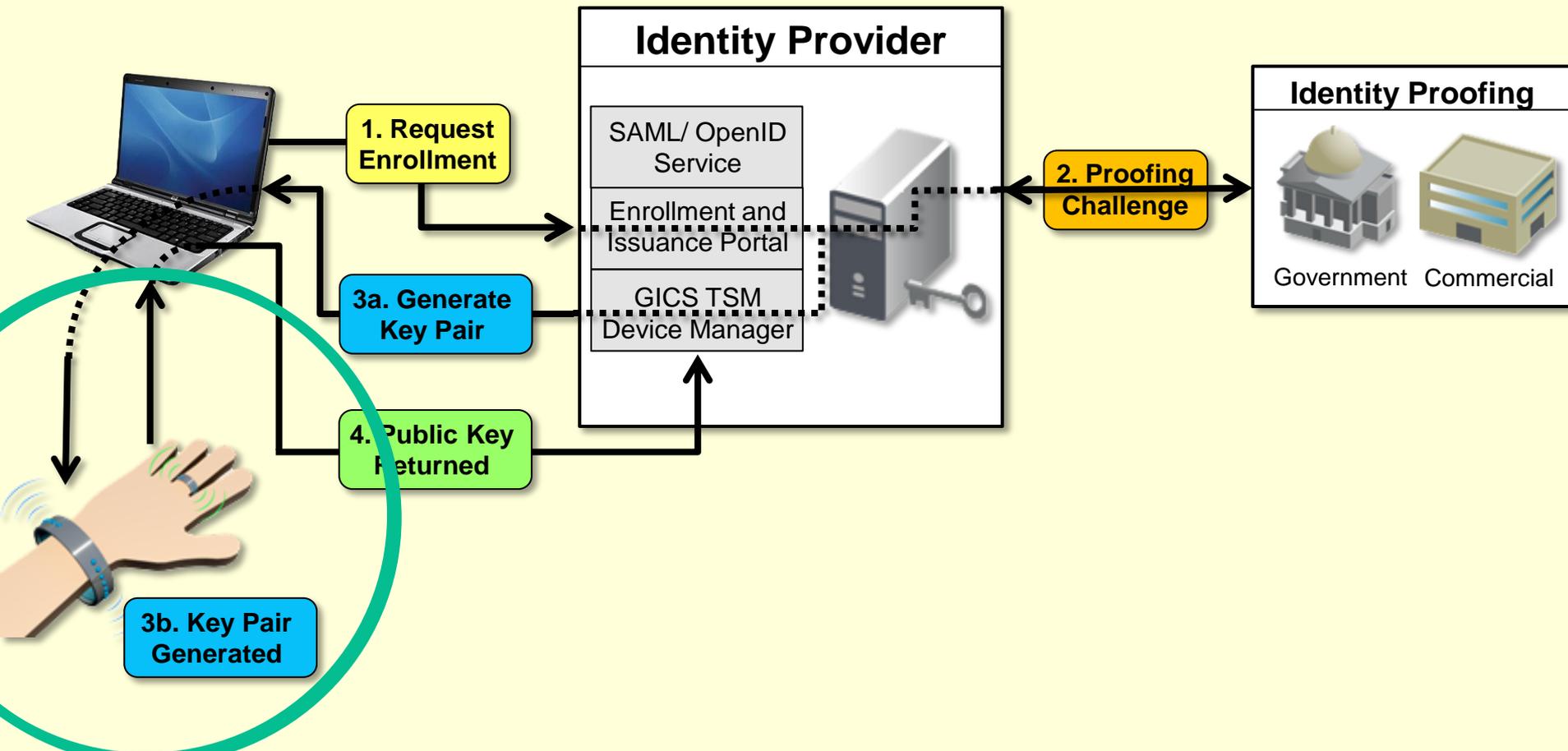


Medical



System Architecture

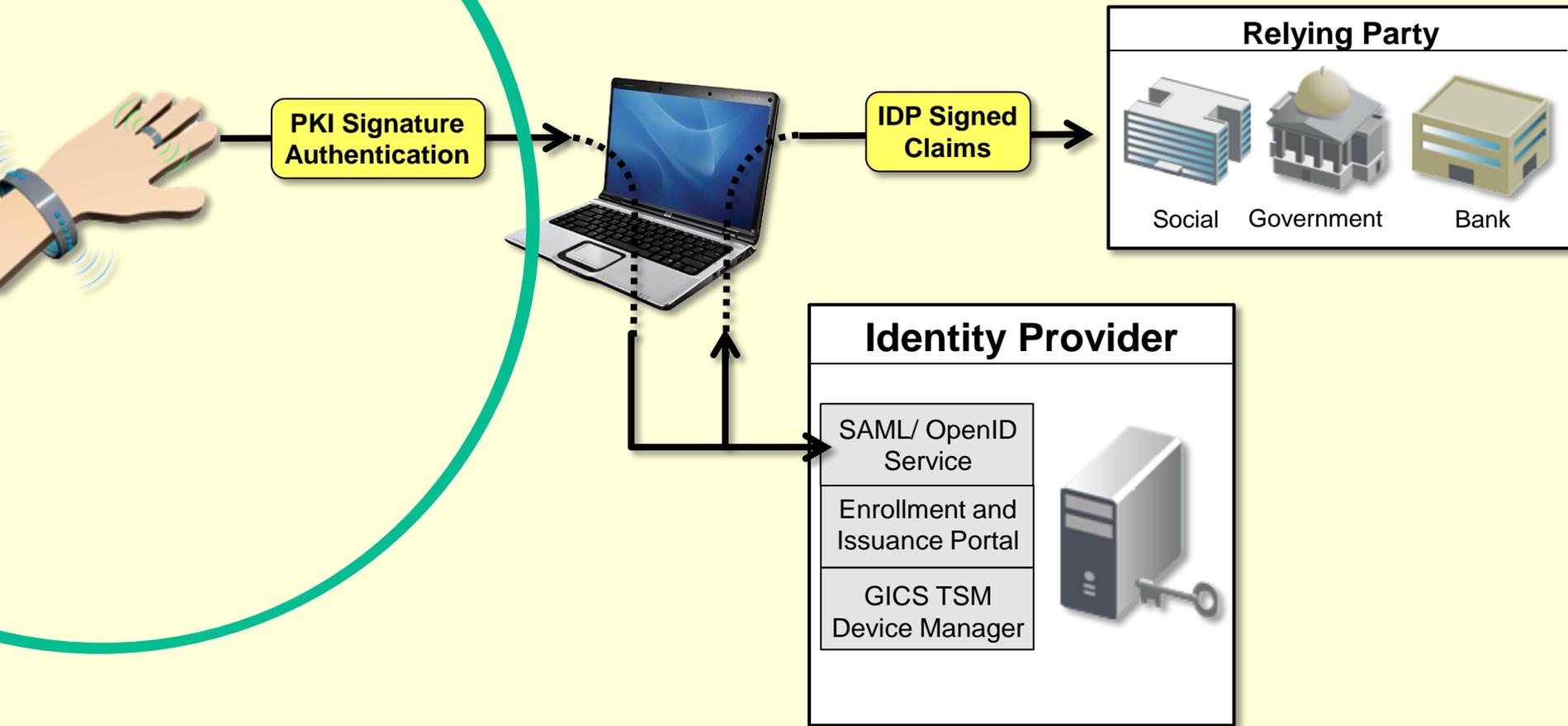
Credential Issuance Process





System Architecture

Authentication Process





Three Pilot Projects

- Government Pilot: Demonstrating NSTIC/FICAM Compatibility using Derived Credentials
- Social Media Pilot: Strong Authentication with a Portable Identity Credential
- Healthcare Pilot: Strong Portable Credentials for Doctors





Takeaway

- **Focused on a system that provides Jane and Jon with:**
 - Privacy
 - Security
 - Interoperability
 - Convenience

- **We're excited to develop our 3 pilots and provide lessons learned to the NSTIC community**