# THE DEATH OF PASSWORDS

Michael Barrett, CISM, CISSP

Chief Information Security Officer

PayPal ™

Voice Biometrics Conference May 8, 2013



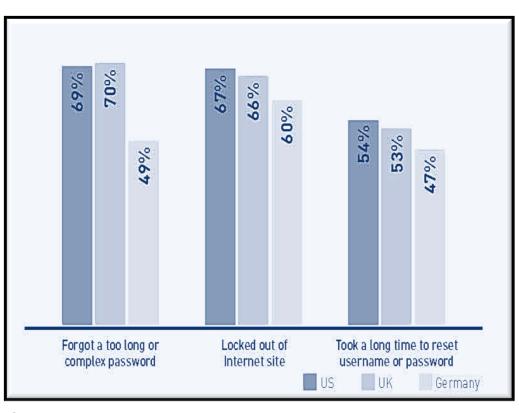
## Opportunity for Better Authentication is Upon Us Passwords Just Do Not Work...





#### **Experiences with Identity and Authentication**

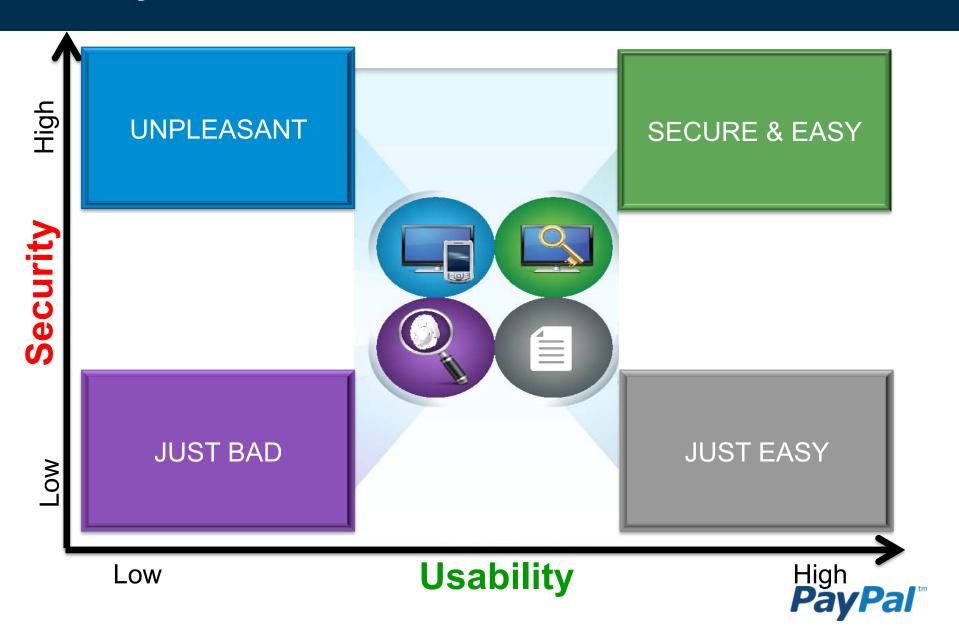
Users are frustrated password complexity requirements working against them instead of supporting them



Common experiences related to authentication failure (respondents who say it happened to them one or more times over the past 2 years)



#### Security is not a Continuum...



### Do You Really Want Your Refrigerator to Know Your PayPal Password?

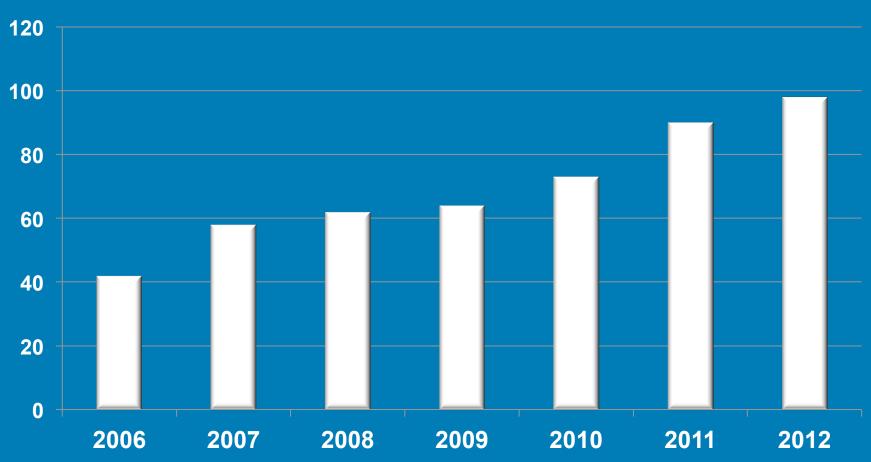


### Newer Technologies Exist

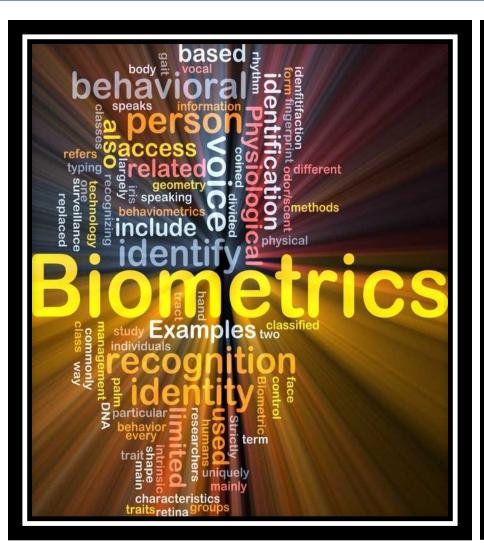


### **Increasing Options**



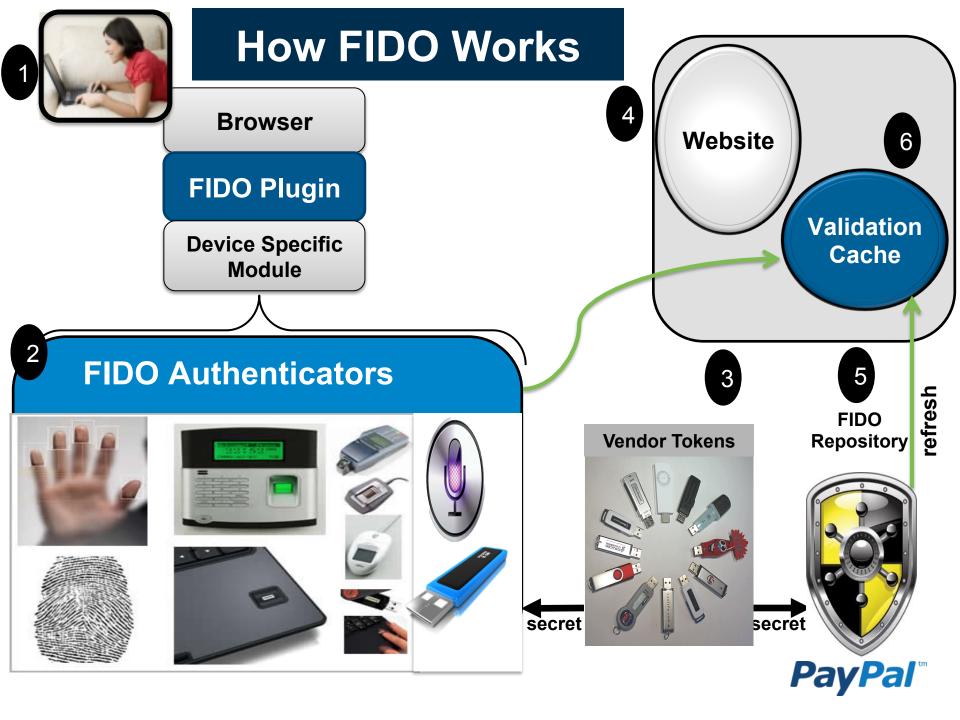


# Authentication Standards Combined with Advances in Biometrics Provide a New Path Forward







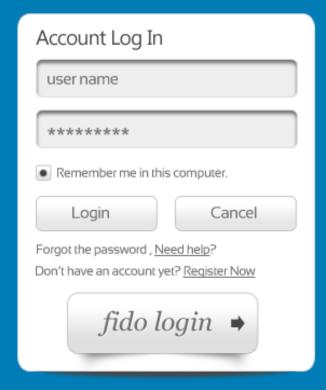


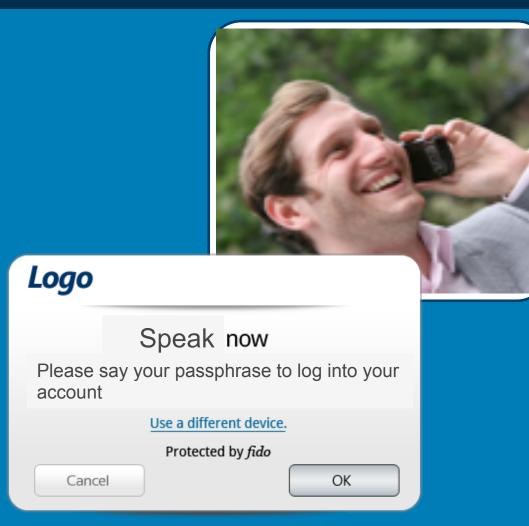
### The FIDO "User" Experience

- User picks their own token type
- User decides when/if to bind their token to their account
- Existing tokens (like finger) can be used by downloading the FIDO plugin
- User can download the plugin from various sites
- User could have a PIN-protected USB drive to use while travelling



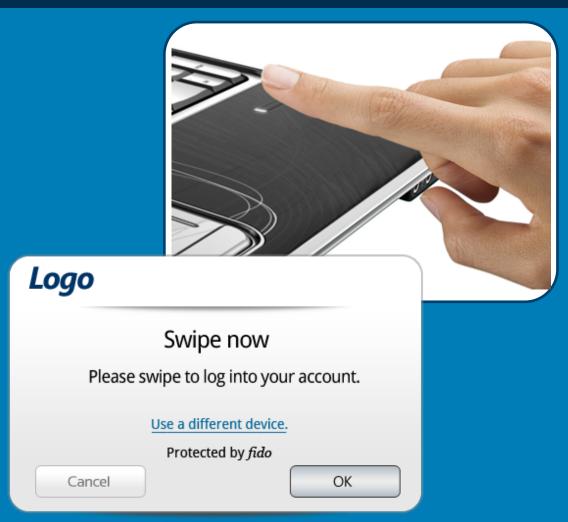
### **Voice Experience**



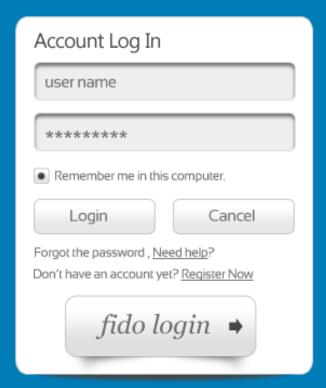


### Finger Experience





### **USB Experience**







- ➤ The Internet needs better authentication, now
- ➤ Stronger authentication is not "better authentication"
- ➤ An industry standards based approach is the only viable way forward
- ➤ "Whether you believe you can do a thing, or not, you are right" (Henry Ford)

### **Thank You for Your Time!**

