

# MIRACL Intro - HEAnet

## Simply Secure

*“Protecting people and giving them a good user experience is a key goal.  
MIRACL is a pioneering company that helps us achieve that.”*

Nick Mothershaw, EX - UK & Ireland Dir of Identity & Fraud at Experian



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# The University Challenge

Provide Secure Multi-Factor Authentication (MFA) to Everyone Under Its Care

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## Changing requirements

- Remote learning and working opens systems to greater damage
- Extend MFA beyond staff to students and even alumni

## Universities increasingly under cyber attack

- National Cyber Security Centre warns of a spike of attacks on Universities
- Newcastle, Northumbria and most recently Sunderland all falling under attack

## Passwords not fit for purpose

- 80% of all breaches caused by passwords
- Huge hidden costs in terms of support and remediation of damage

# Usable Security Is Not Easy

There are good reasons why passwords are still in use!

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## **Cost - tight budgets, tender limits and growing userbase**

- High cost/user and uncapped liabilities
- Unfathomable pricing models

## **Complexity – slow adoption and high support costs**

- Reliance on secondary devices such as authenticator apps and security keys
- Multiple, error prone steps introduce user and system failure

## **Compatibility – numerous platforms and a BYOD environment**

- Shibboleth, Microsoft, Google and legacy IDPs and IAM platforms
- Hundreds of mobile, desktop and OS versions

# MIRACL Trust: 1000x Stronger Than Passwords

Powered by 12 patents – stops MitM\*, replay, phishing & all automated attacks

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**MIRACL Trust® ID** The world's only single-step Multi-Factor Authentication that operates natively on any device or browser

Make any device an authenticating token without hardware or software

Trusted by the military, global financial and technology companies



# SIMPLE: 20x Quicker & Easier Than An SMS

Unique one-step, 2 second login on any device

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**Passwordless** – raising conversion & engagement

**One User Step** – no OTP <sup>(1)</sup>, Push or app required

**Fast** – 1/20<sup>th</sup> the time of an OTP <sup>(2)</sup> – [video](#)

**Foolproof** – 1/20<sup>th</sup> password & OTP Failure rate <sup>(3)</sup>

**Click [here](#) to try it**

1. One Time Passcode
2. MIRACL Trust ID Average of 2-3 second login
3. SMS 15% and Passwords 5-15% error rate Vs. MIRACL 1-3%

# DEPLOYABLE: Replace Passwords Everywhere

Operates on all devices - smart phones, tablets, pcs, smart TVs and more

## Integrate to existing verification or IAM

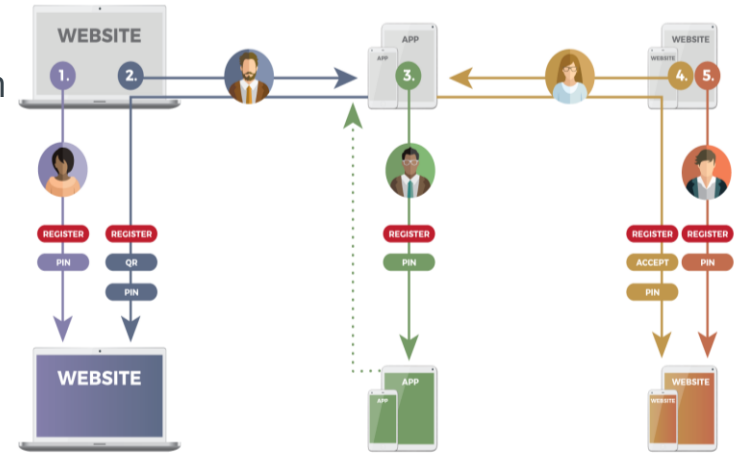
- **No Change** to existing platforms and process
- **Primary or Second Step** replace passwords or SMS or both

## On any device

- **Universal login** via browser, without plugins or downloads
- **Native App** integration for iOS & Android

## Verified and supported by HEAnet

- **Native Shibboleth** one of only 3 vendors recognised
- **No Admin** equals low maintenance and no misconfiguration



1. No secondary Identity Management (IM) platform required

# AFORDABLE: PAYG Or Site License

TCO less than Passwords<sup>(1)</sup> with reduced support costs<sup>(2)</sup>

**Choose PAYG – per use, typically ¼ to ¼<sup>0</sup><sup>th</sup> SMS text costs<sup>(3)</sup>**

**Or Site License - covering all Staff, Students and Alumni**

SIZE	# OF STUDENTS	COST PER YEAR
Very Small	<1,000	£5,000
Small	1,000-2,499	£10,000
Medium	2,500-4,999	£15,000
Large	5,000-10,000	£20,000
Extra Large	10,000+	£25,000



1. Taking into account secure hosting, maintenance, support and data privacy measures
2. 1/5<sup>th</sup> to 1/15<sup>th</sup> user error rates of passwords and 1/10<sup>th</sup> to 1/20<sup>th</sup> user error rates of SMS
3. Comparison based off of AWS Cognito SMS 2FA pricing



**1/20th The Time**  
**1/20th The Errors**  
**1/20th The Cost**

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**Thank You**

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