



## Embedding Development Security

New applications are released every day with vulnerabilities

Fast coding and agile development has increased the expectations on delivering new applications quickly, but in turn this has led to an increase in vulnerabilities. Independent reports have also highlighted the cost of leaving remediation towards the end of the development lifecycle.

### Did you know?

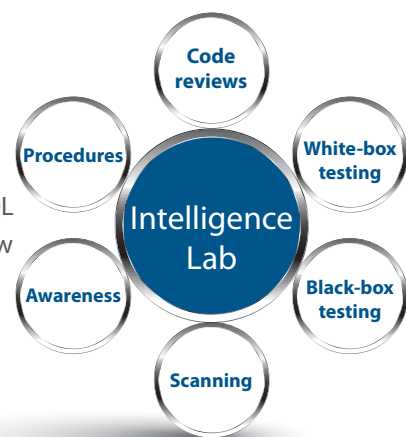
- On average, there are 5 to 15 defects in every 1,000 lines of code (US Dept. of Defense and the Software Engineering Institute)
- It takes 75 minutes on average to track down one defect. Fixing one of these defects takes 2 to 9 hours each (5 Year Pentagon Study).

### Hackers are more persistent than ever

The latest breaches reported in the press have come from criminal hackers targeting employees, tricking them in activating customised malware, which means that the firewall, anti-virus and application gateways are ineffective. **The last defence and best protection is to manage the vulnerabilities on the application.** Therefore, security programme activities need to be scheduled during the application development lifecycle and version updates.

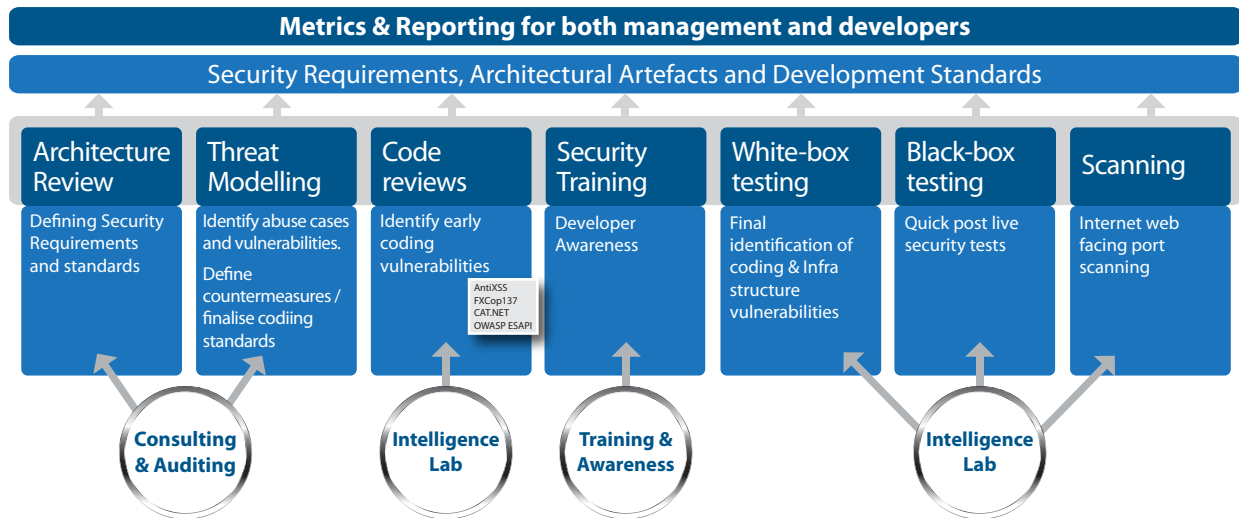
### Protect your applications

**CIPHER Intelligence Labs** continue to pick up consistent common errors; Cross Site Request Forgery (CSRF), Improper error and session handling, as well as finding basic Cross Site Scripting (XSS) and SQL Injection vulnerabilities. In addition, CIPHER consultants find that new applications may not have considered regulations and industry standards, for example, mistakenly using Card Holder Data (CHD) for indexing, leading to compliance issues.



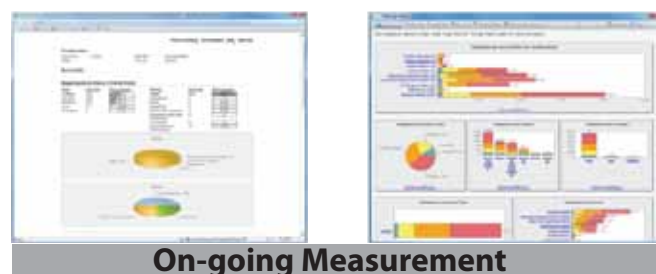
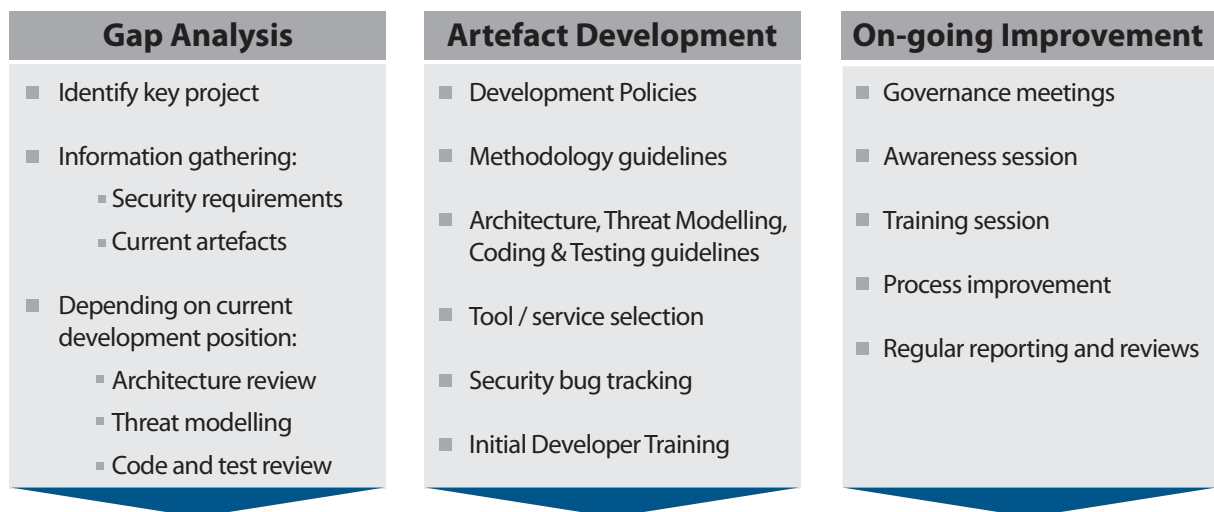
## The solution is to embed security into the development process

The success in embedding security into the development lifecycle depends on sharing the results and experience between developers and management.



## How do we get there?

Management and development teams need to understand the gap in key projects and demonstrate quick examples of improvement:



## About CIPHER

CIPHER is a multinational, specialist Information Security and Risk Management company, with over 300 employees. Our services include; Consulting and Auditing (PCI-DSS QSA, ISO 2700x and industry / country regulations), Award winning security system integration and 24x7 SOC/SIEM, with over 300,000 assets under management in 35 countries, correlating 1,000,000 events daily. In addition, we conduct Research & Development through our Intelligence Lab, supporting the CIPHER university and (ISC)<sup>2</sup> training centres. CIPHER is dedicated to delivering quality, excellence and innovation.