

# The Office of County Internal Audit

## **Custom-Developed Software: Unifying governance will increase consistency.**

#23/24-13



Audit Committee | June 14, 2024

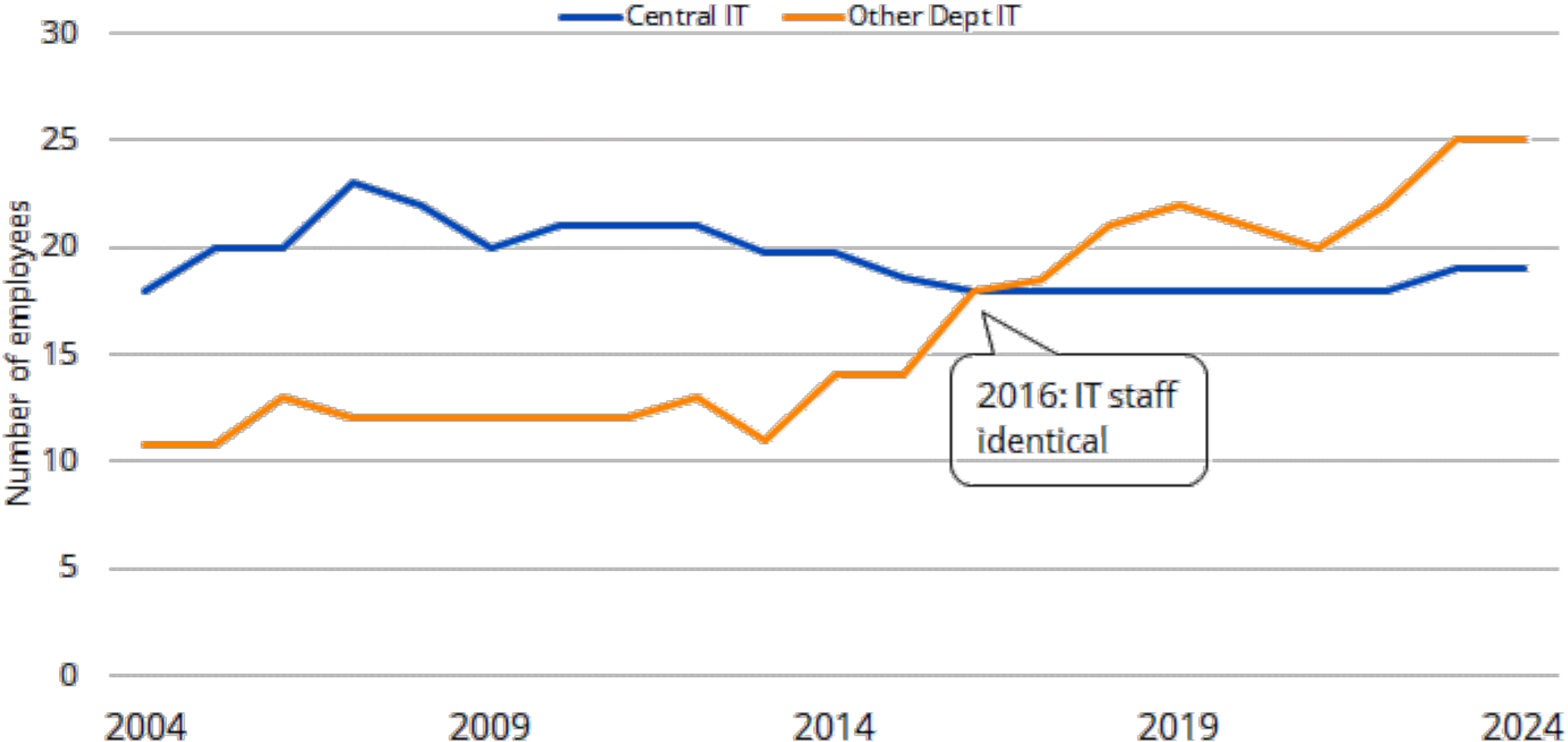
# Background on Development Process



Source: Amazon Web Services



# Organizational Shift



Source: County Human Resources Information



# Planning and Analysis Phase

---

## 1. Planning & Analysis

Gather all relevant information from stakeholders and analyze this information to determine what will be feasible.

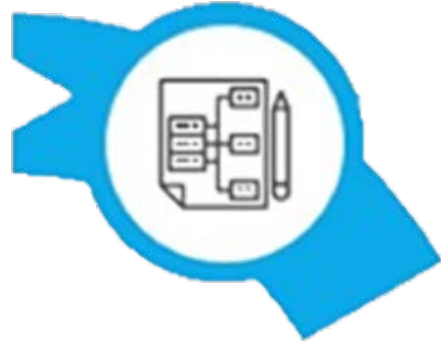


- Uncoordinated Efforts
- Unknown Costs
- Unknown Products



# Design Phase

---



## 2. Design

Create a design specification. This should answer the question, "How will we build this?".

- Undocumented Specs
- Undocumented Security Requirements



# Implementation (Coding) Phase

---



## 3. Implement (or Code)

Building the software using a programming language by the development team.

- Undocumented Coding Standards



# Testing Phase

---



## 4. Testing & Integration

Release the application to a testing environment, test all areas of the application to spot any defects, bugs, or other problems.

- Undocumented Guidance
- Inconsistent Availability of Secure Repository



# Deployment Phase

---

## 5. Deployment

All defects have been fixed and the software has been built to the agreed-upon goals and specifications.



- Missing Application Documentation - System and Users
- Undocumented authorization and responsibilities



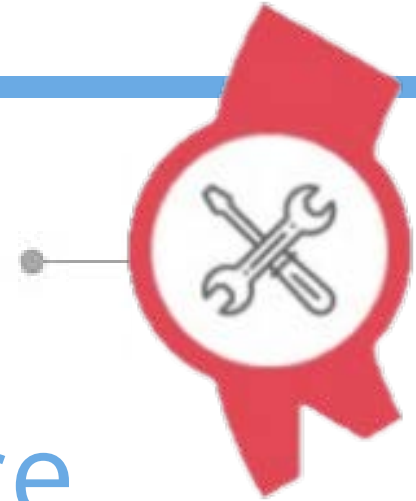


# Maintenance Phase

---

## 6. Maintenance

Updating and supporting the software after it has been delivered to the market.



- Undocumented maintenance efforts – the what
- Tracking of efforts – the who and how long
- Missing measures – the result



# Don't forget to fill out the survey!

---

## Questions/ Comments?



---

# Thank you

