Edinburgh TSC F2F
Working Agenda and Deck

Edinburgh, UK

Oct 23-25, 2018

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WORK IN PROGRESS

Please connect with Jim W, Brett P, or Keith S for additions, re-action, commentary to this deck

EdgeX Chairperson's Day

Meetings by WG Chair to discuss particular issues/designs

Edinburgh Work Group Meetings (pre-F2F) – Oct 23

- System Management WG (2 hrs)
  - What is EdgeX system management versus gateway management
  - Scoping future system management capabilities
- Security WG (2-3 hrs)
  - HW based security discussion
- Application WG (? hrs)
  - Review application services design (Export Services replacement)

EdgeX TSC 2-day F2F

Edinburg F2F Meeting

- Agenda
  - Day 1 – Edinburg planning day
    - Welcome and intro by Keith Steele (IoTech): 9-9:30am
    - Architecture day tee-up: 9:30-11am
      - Review and explanation of upcoming items
    - Edinburgh Planning – what's in/out: 11-2:30pm
      - Scope definition
    - Future Release Roadmaps - Fuji and beyond: 2:30-3:00pm
      - Long range scoping and roadmap review
    - Developer Advocate Perspective: 3:00-3:30pm
      - Better onboarding
    - DevOps Changes – 4-5pm
      - Release management, developer involvement, etc.
  - Day 2 – Architecture issues day
    - TBD architecture discussion and decisions: 9am-2:00pm
    - Demonstrator and DevKits: 2-3pm
    - Business Issues/Discussion: 3-4pm (May be moved & extended to separate meeting time)
    - Wrap up and action items: 4-5pm

Architecture Issues Tee-up – Technical Debt

- Technical Debt (things that need fixed)
    - Mongo replacement – results of Data Persistence project group
        - Refactoring to provide interface/loose coupling. Removal of BSON coupling
        - Redis implementation (along with Mongo)
        - Performance testing
        - Cert/Marketplace
    - Database abstraction (hiding IDs, allow for "swapability", etc.)
    - Export Services (soon Application Services) – state of rework
    - Windows developer support (0MQ issue)
    - ARM 32 support (are we directly supporting or not??)
    - Tutorials and How-to-guides, particularly around south side

    - WORK IN PROGRESS – provide Jim W topics you'd like to discuss

Architecture Issues Tee-up - Enhancements

- Move to Go 1.11
  - Modules / vgo
- Config changes and callback/watcher
- Performance testing (who, what, how)
- HW root of trust (HW storage abstraction) in Security
- Alternate deployment / orchestration (ex: adding Kubernetes support)
- Wiki Roadmap/Backlog list review for other topics

- WORK IN PROGRESS – provide Jim W topics you'd like to discuss

Cadence Check

- April & Oct remain target release months
  - Edinburgh – April 2019
  - Fuji – Oct 2019
  - Geneva – April 2020
- F2F planning around time of completion of each release
  - Korea – April 2019
  - ??? – Oct 2019
- Conferences
  - At least 2 x large marketing/promotional events (Hannover Messe, IoT SWC)
  - At least 1 x developer focused event
    - Internet of Things World – May 13-16 (Dell Tech sponsoring)

Edinburgh Scope

- Major themes
  - Certification program
  - Export Services -> Application Services
  - MongoDB -> ???
  - Device Services galore
- Other efforts
  - Performance testing
  - HW Root of Trust
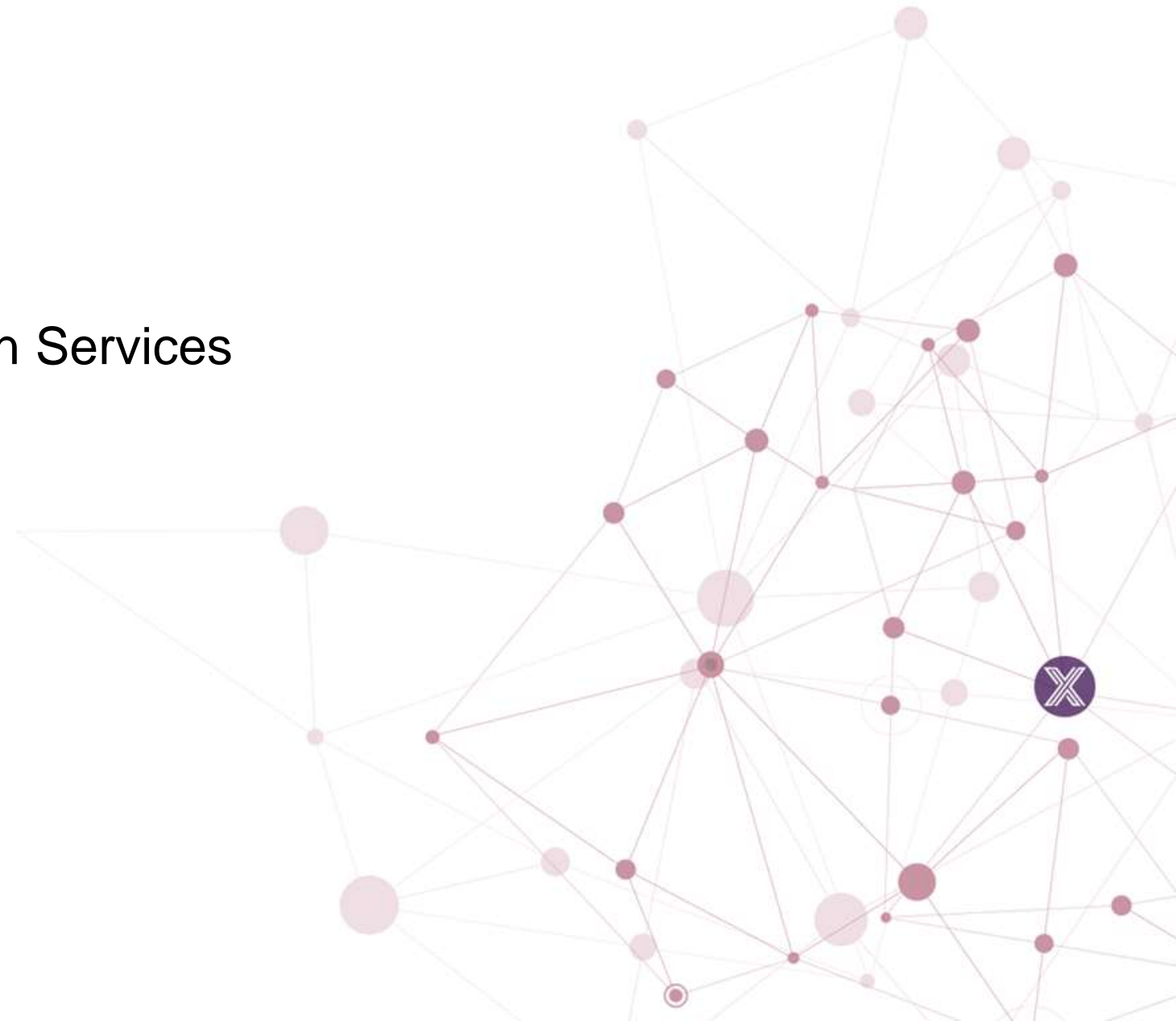
Certification Program

- TBD
    - What are we certifying
    - What does it look like
    - What resources does it need

Edinburgh Planning – Application

In
- Export Services replaced with Application Services
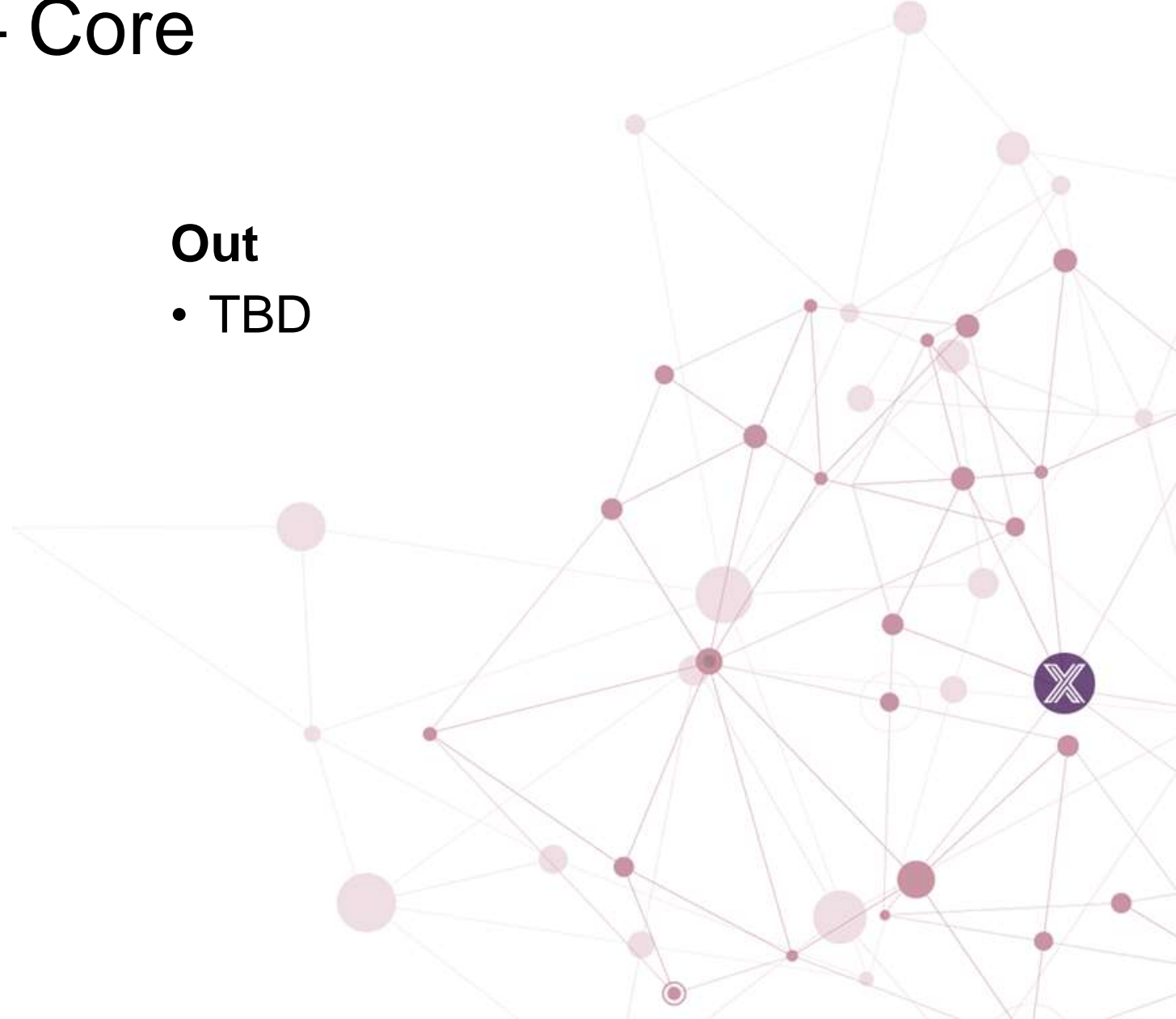- Rules Engine replacement

Out
- TBD
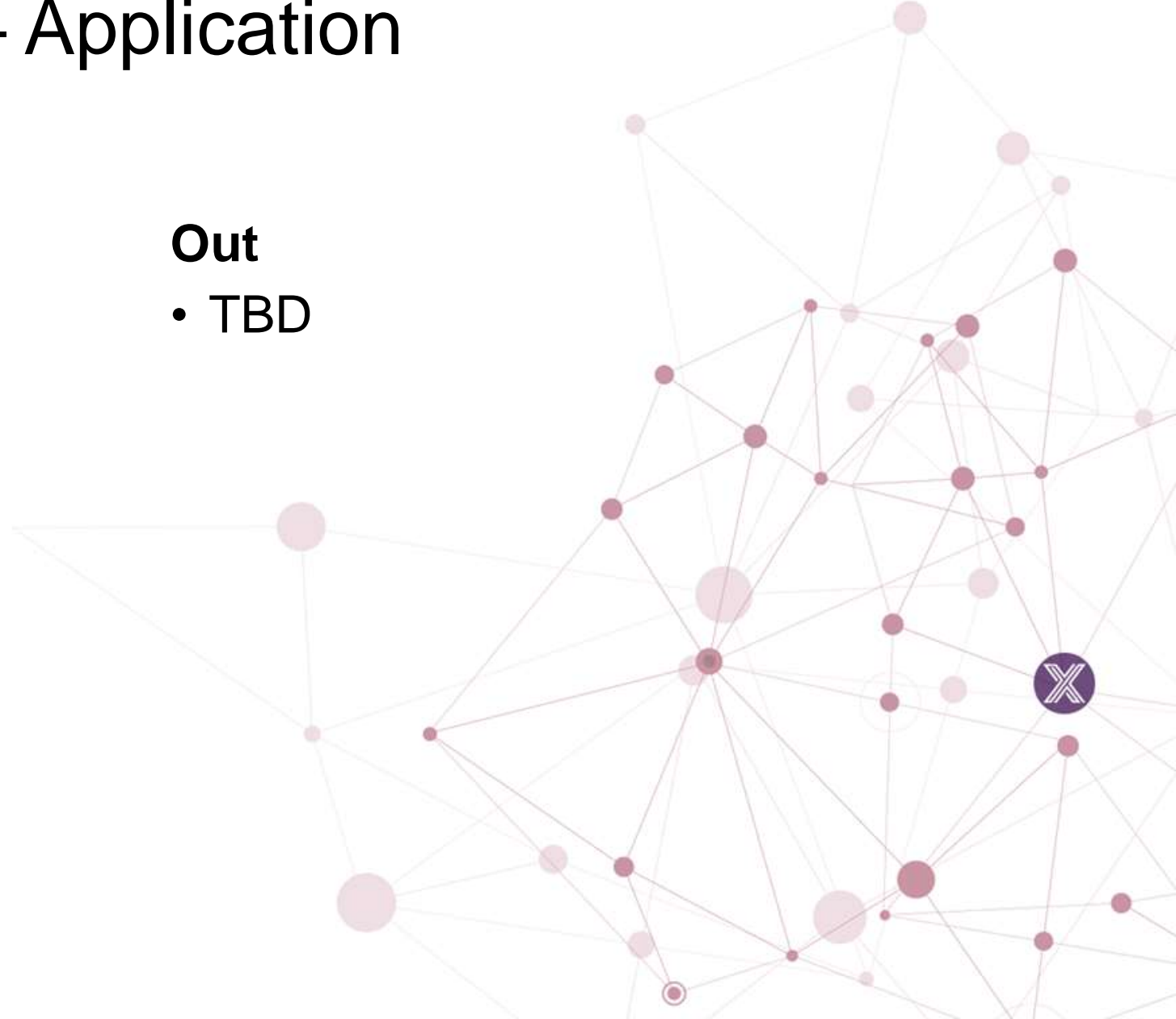
Edinburgh Planning – Core

In
- MongoDB replacement

Out
- TBD

Edinburgh Planning – DS & SDK

In
- Device Service SDK Tutorials
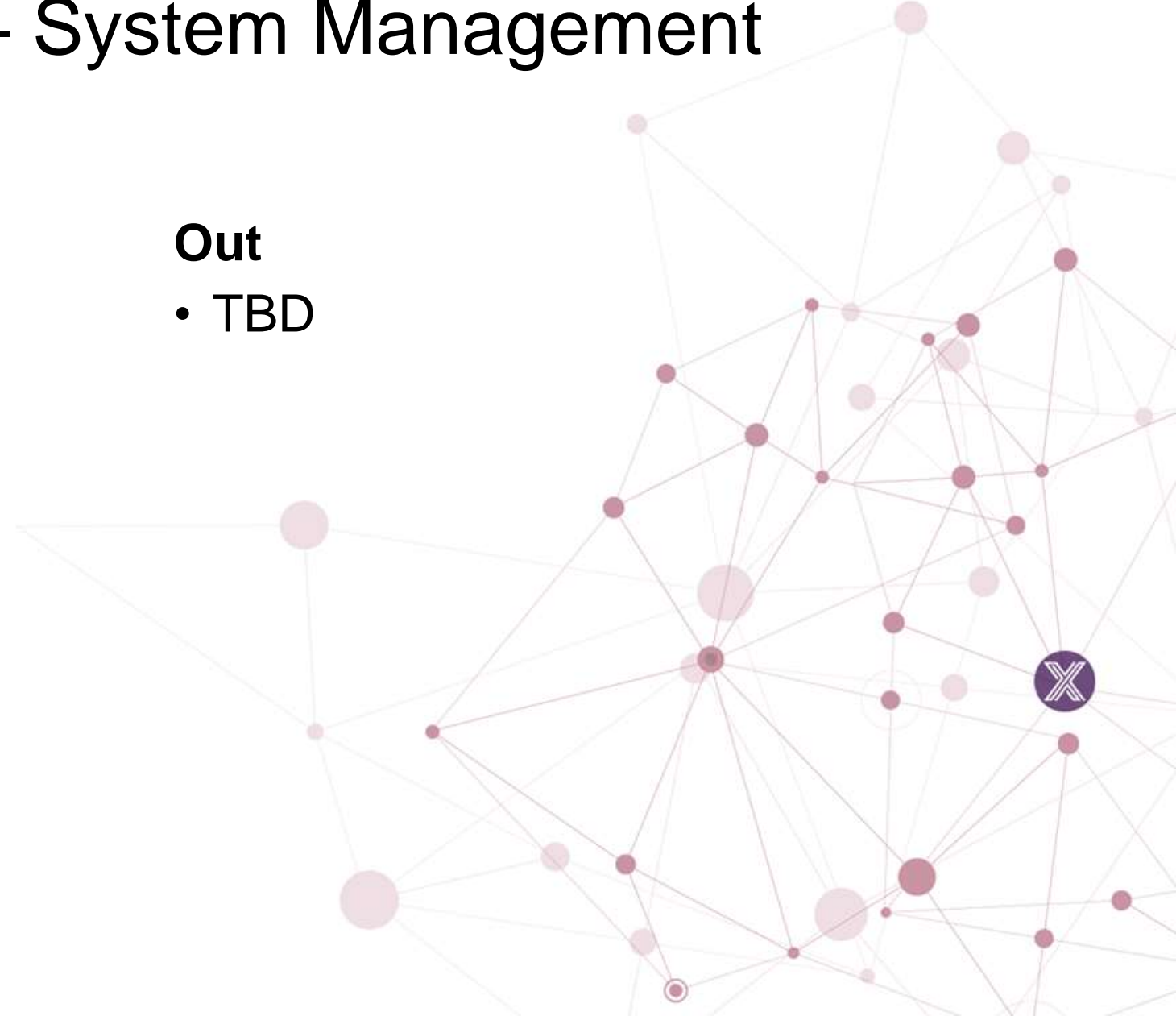- Demo/Virtual Device Services
- DS for Modbus, … TBD

Out
- TBD
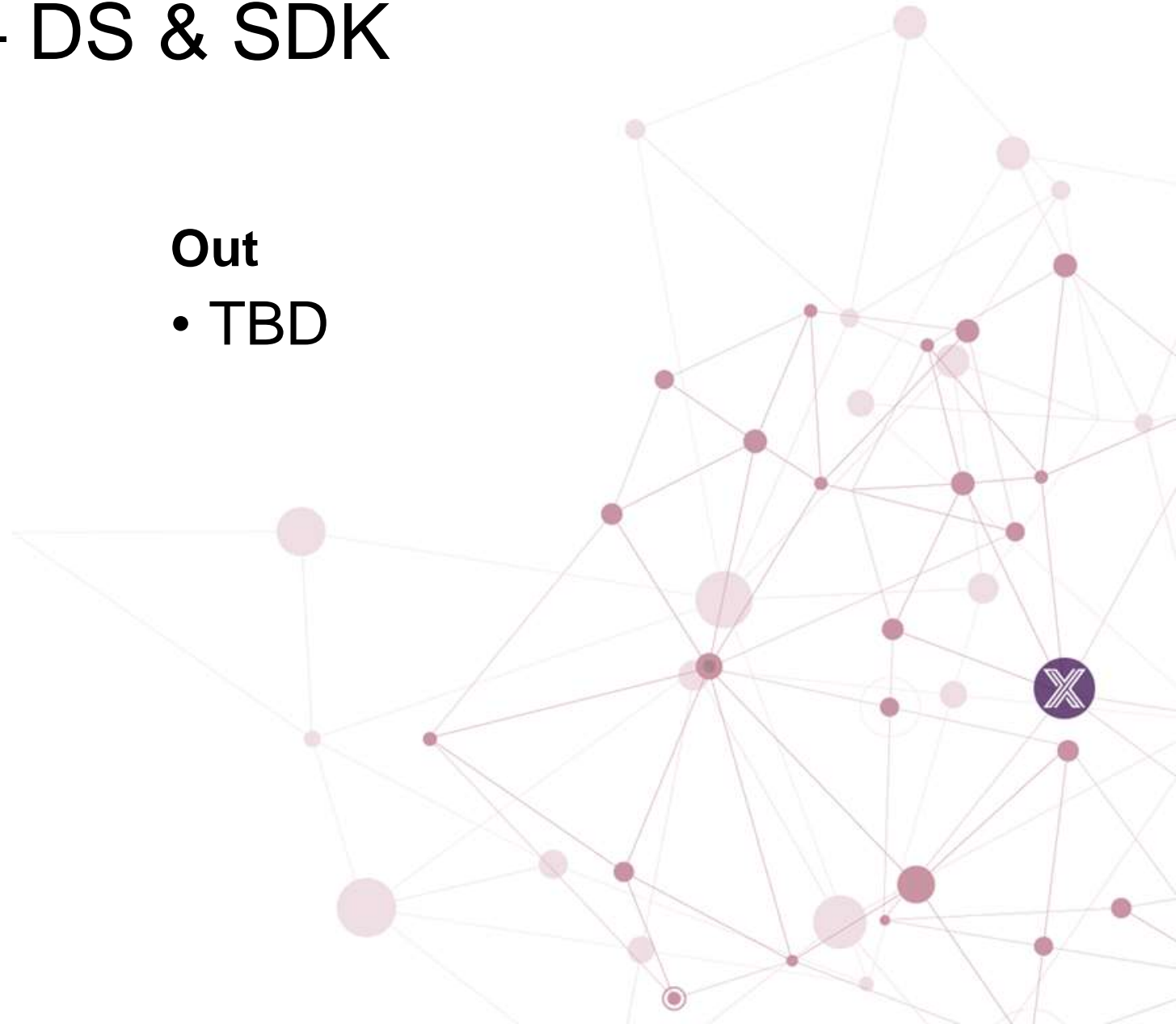
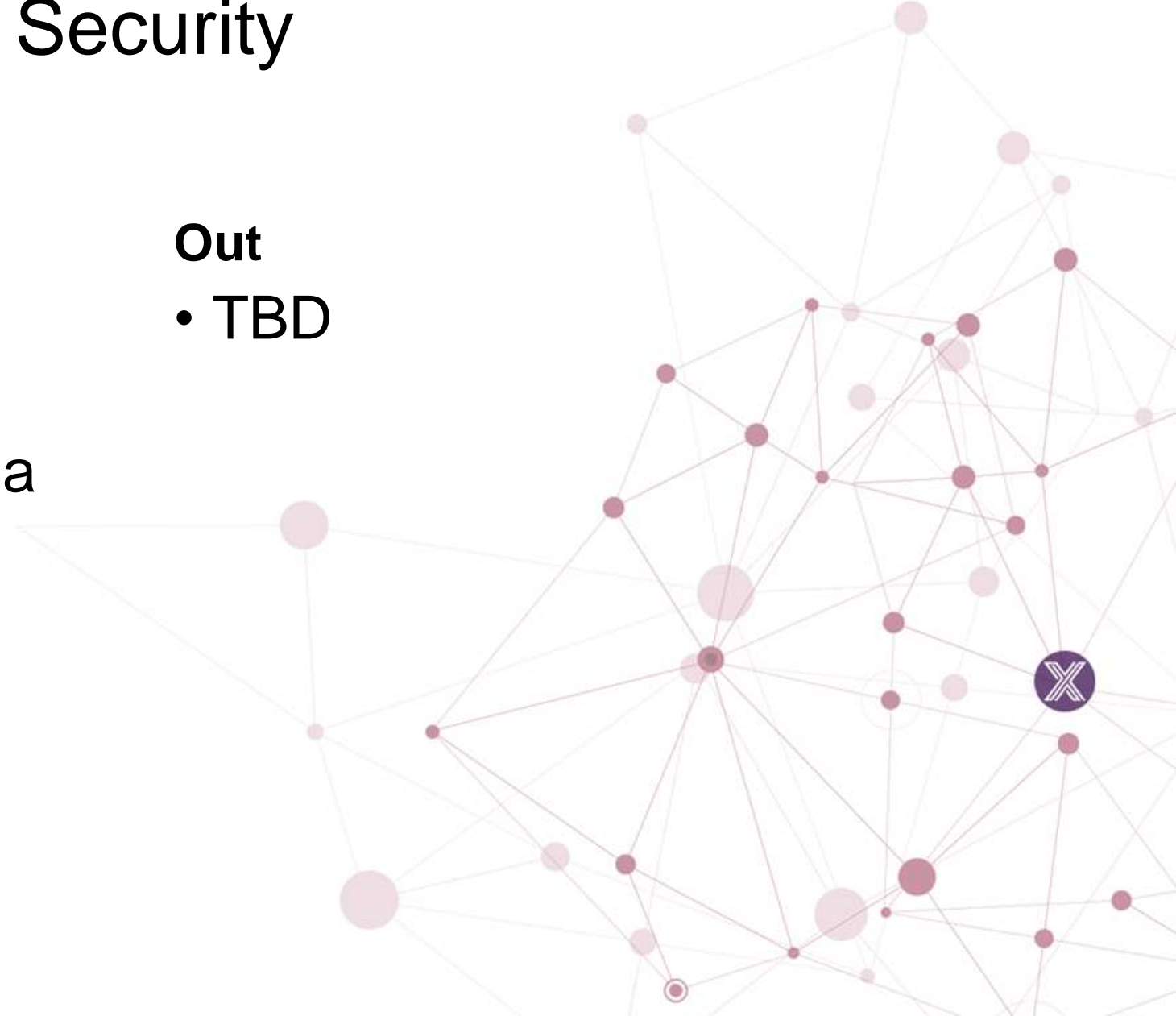# Edinburgh Planning – System Management

In
- TBD

Out
- TBD

Edinburgh Planning - Security

In
- HW Root of Trust
  - Storage Abstraction Layer
- Service-Service comms via Kong
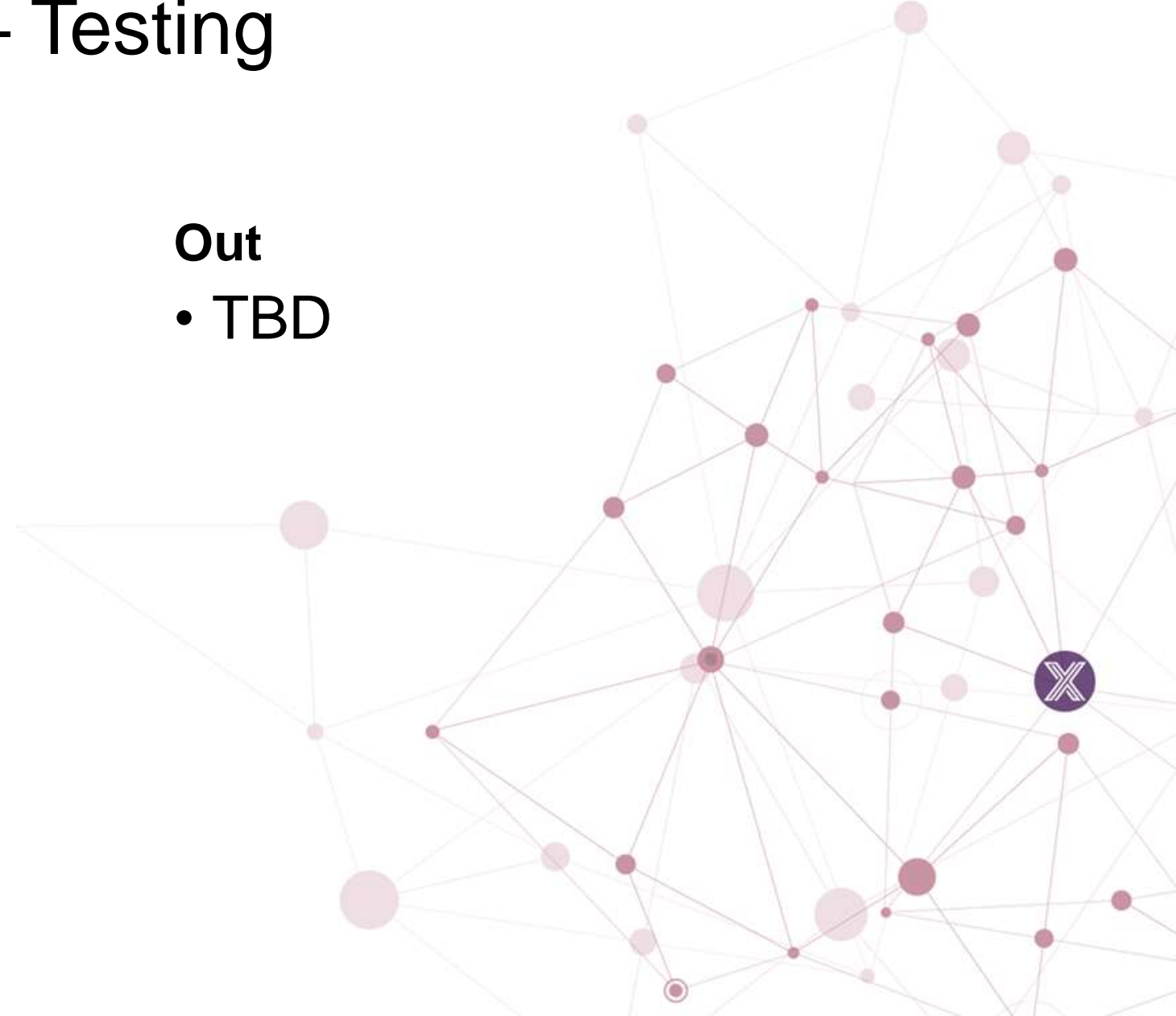
Out
- TBD

Edinburgh Planning – Testing

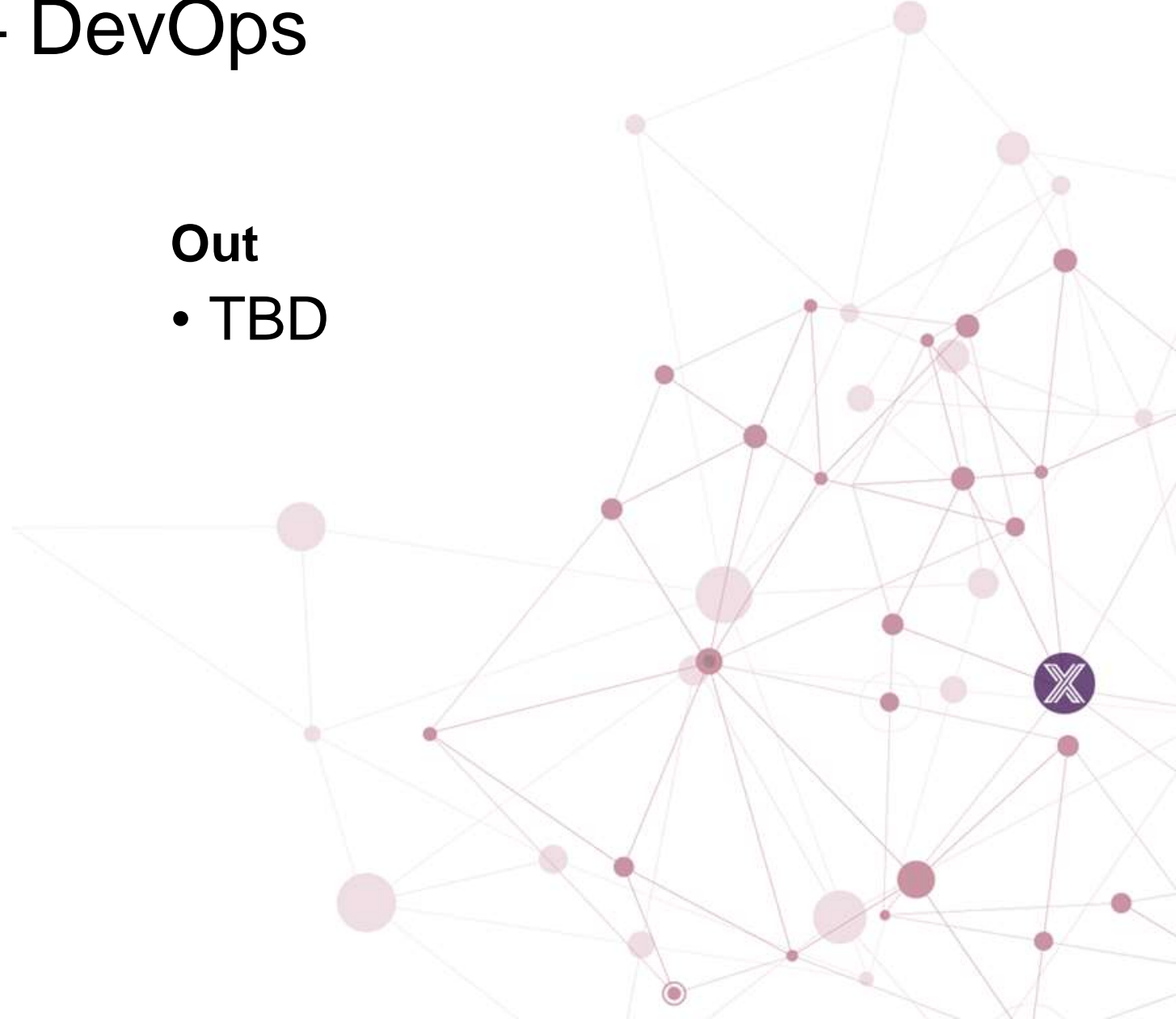**In**
- Performance Testing
- TBD

Out
- TBD

Edinburgh Planning – DevOps
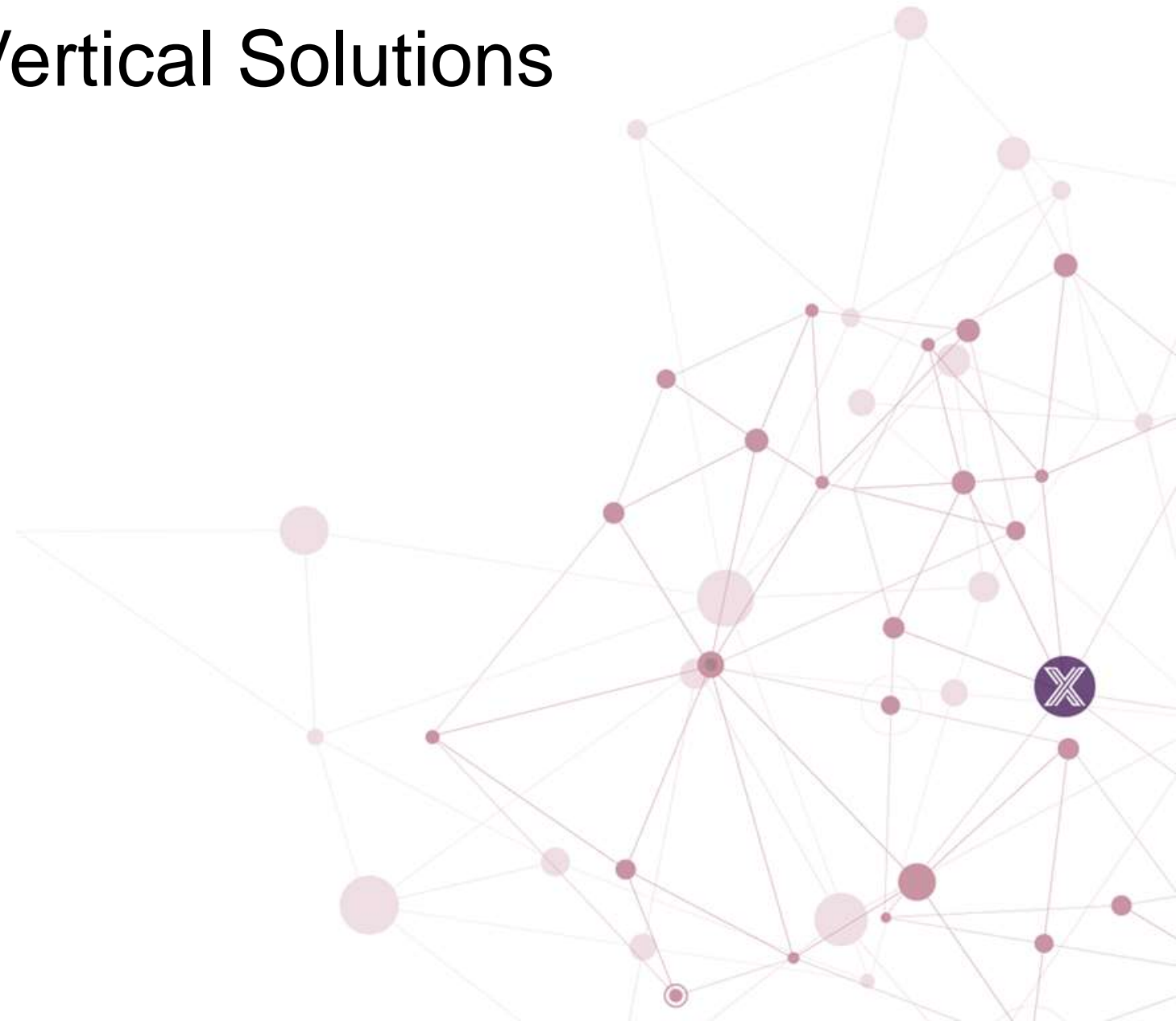
In
- TBD

Out
- TBD

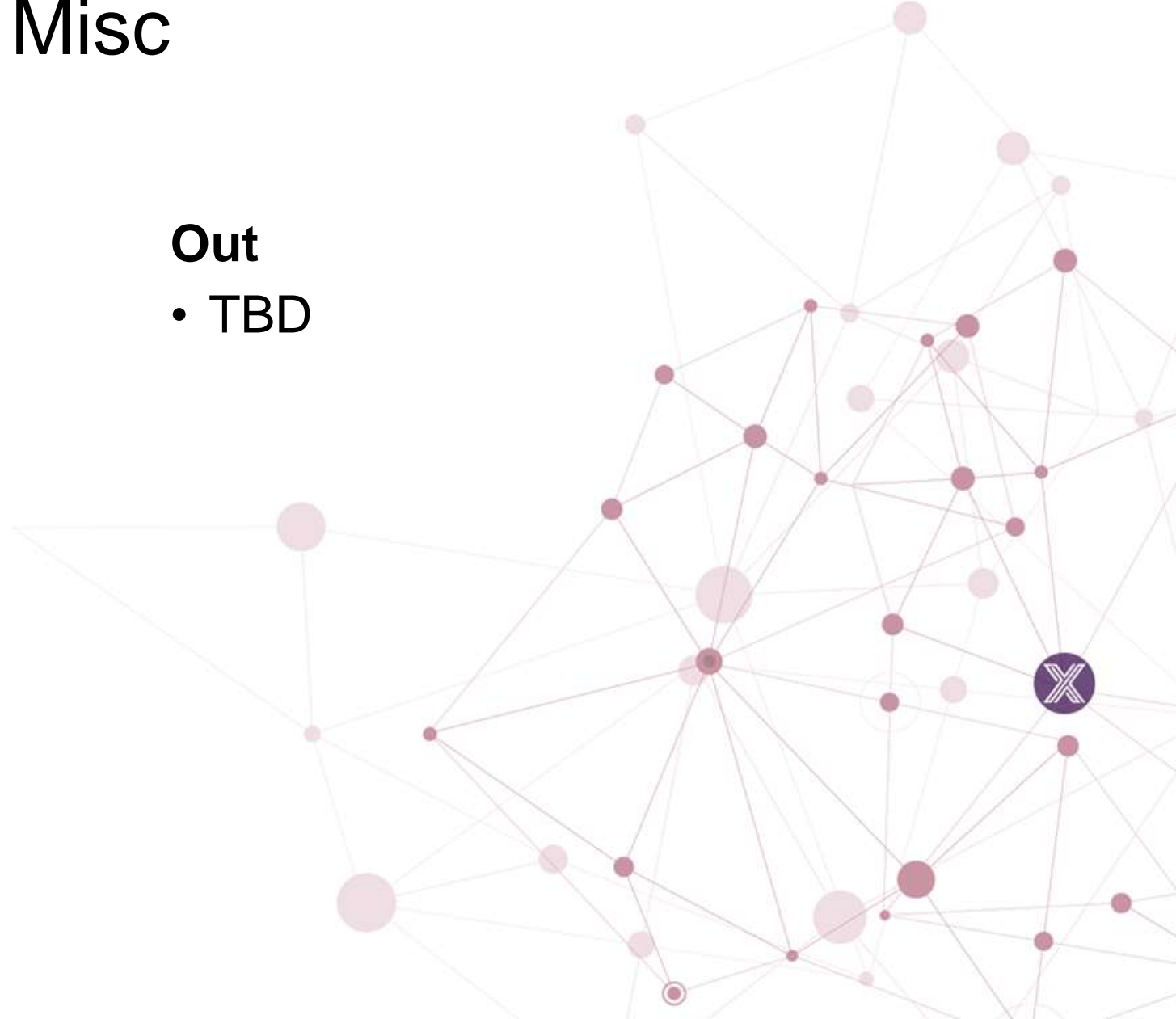# Edinburgh Planning - Vertical Solutions
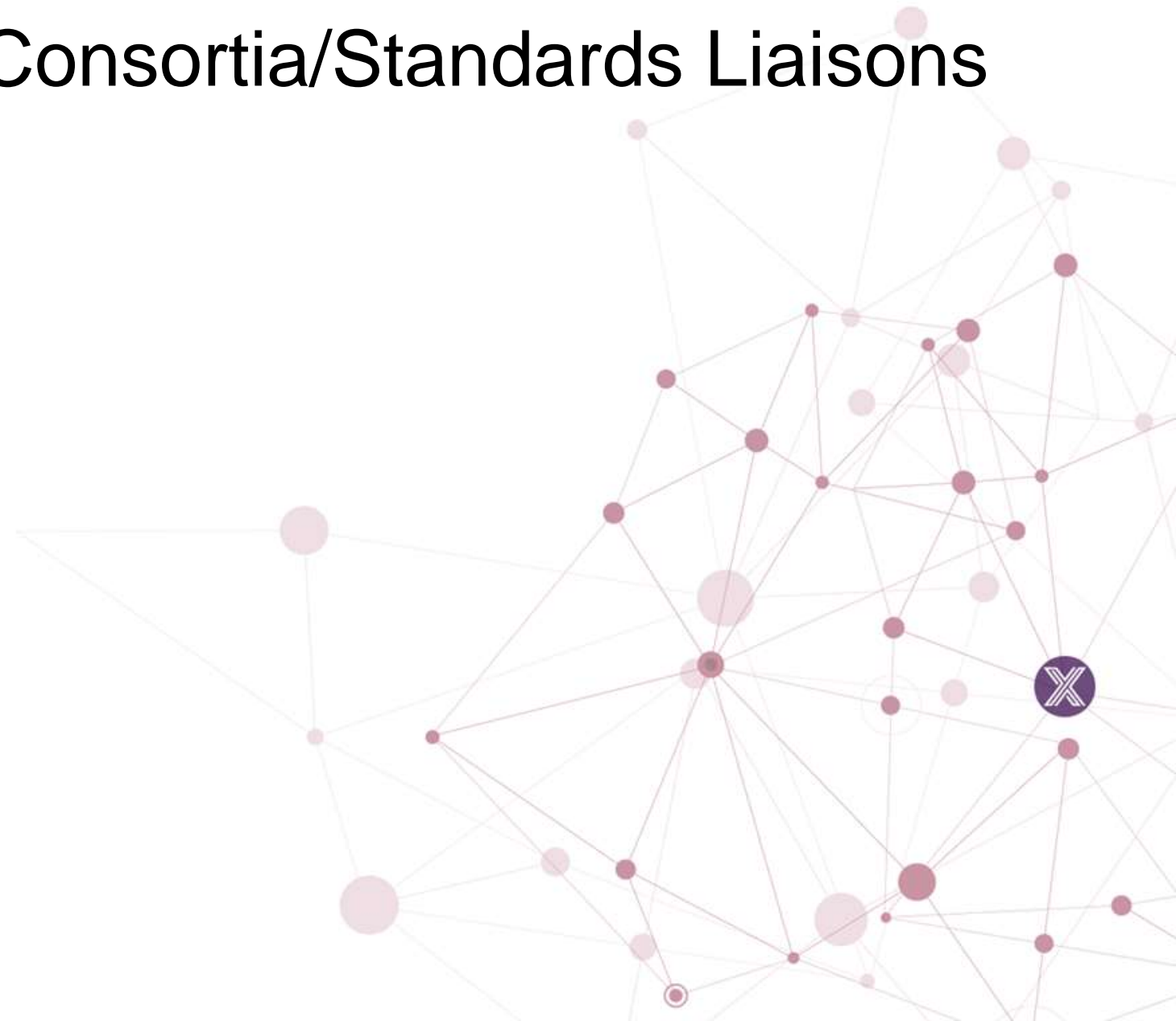
- TBD

Edinburgh Planning - Misc

In
- TBD

Out
- TBD

Edinburgh Planning – Consortia/Standards Liaisons
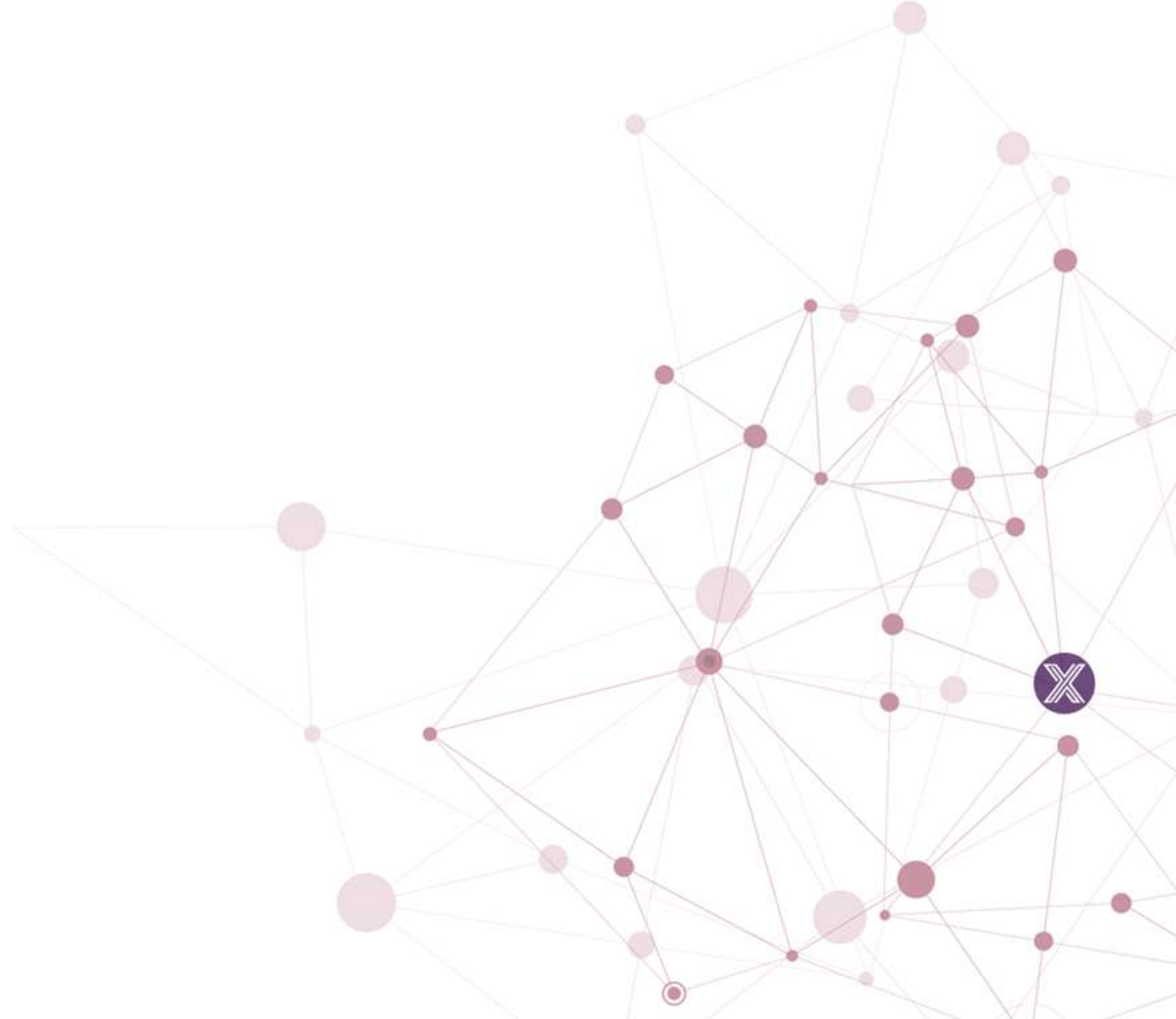
- TBD

Fuji & Beyond

- Roadmap refresh
- Backlog refresh
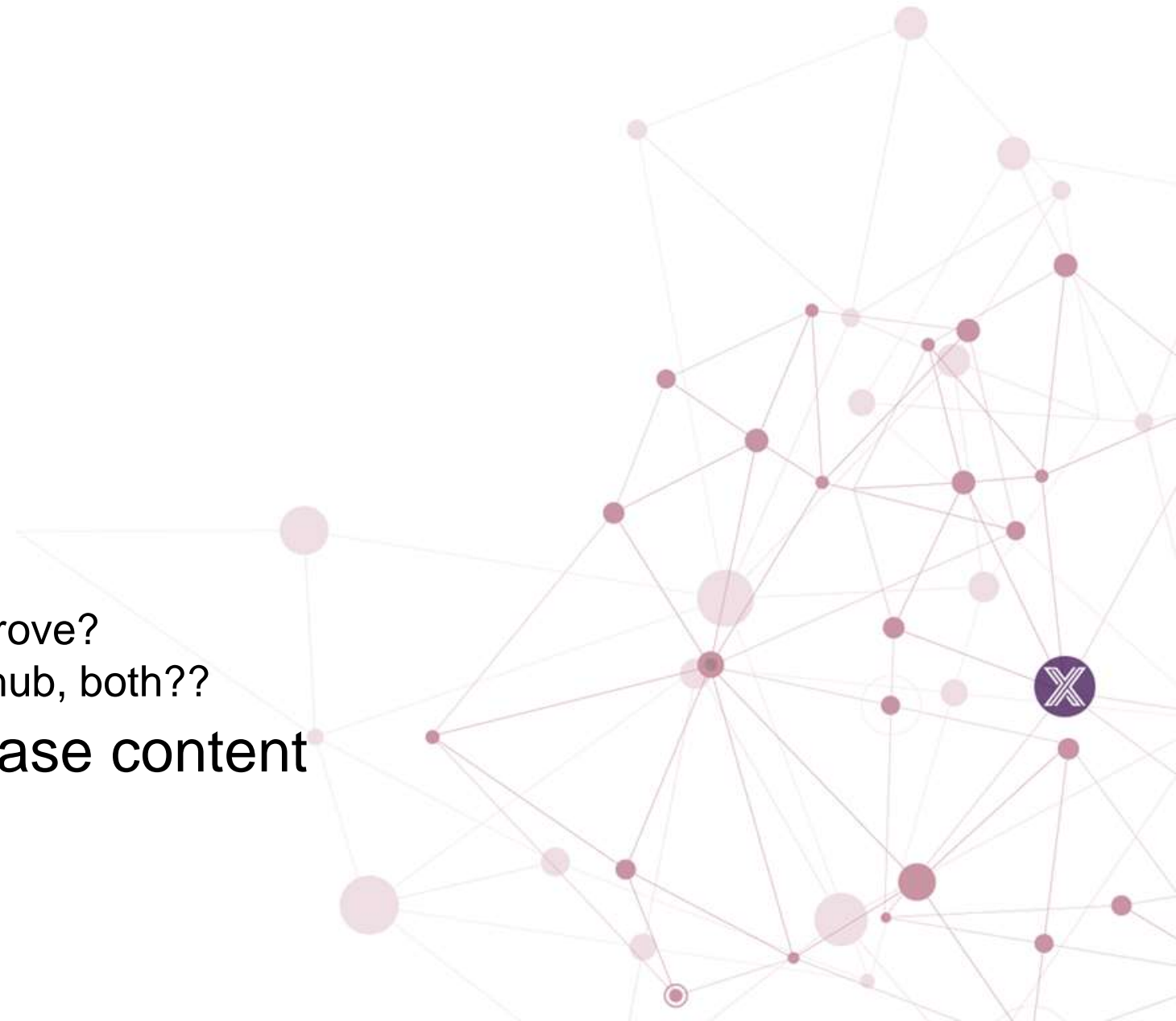- TBD

Developer Advocate

- Improving onboarding
- Upcoming changes
- TBD

DevOps

- TBD
- Release Manager
  - Role & Duties
- Release management
  - Keeping track of release features
  - Procedures and planning.
  - Branch cutting
  - What do we want to change to improve?
  - Track release content via Wiki, Github, both??
- Procedures for tracking release content
- Developer participation

Architecture – Tech Debt/Readdress

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TBD

Discuss as potentially part of Edinburg

Discussed time permitting and proposed for Fuji or beyond

Architecture – Desired Enhancements

- Go 1.11

- Config changes and callback/watcher

- Performance testing (who, what, how)

- HW root of trust (HW storage abstraction) in Security

- Alternate deployment / orchestration (ex: adding Kubernetes support)

- Wiki Roadmap/Backlog list review for other topics

Discuss as potentially part of Ediburgh

Architecture – Desired Enhancements (Cont.)

- TBD

Discussed time permitting and proposed for Fuji or beyond

Business Issues

- May be moved to a different day/time

- Discussion items
  - Demonstrator/Dev kits
  - The new edge compute foundation
  - IIC and other liaison efforts
  - Which events we use to show case and announce
  - Certification/Marketplace offerings
  - Marketing and messaging efforts (like those raised by Moonki at the last meeting)
  - Developer Advocate and other role

Demonstrator/DevKits

- TBD
  - Status of IoTech demonstrator
  - Potential additions/changes to demonstrator
  - DevKit