

Theatre Information Architectures

**Dr Dave Sloggett &
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Report Documentation Page

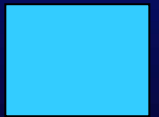
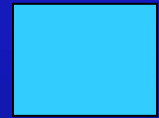
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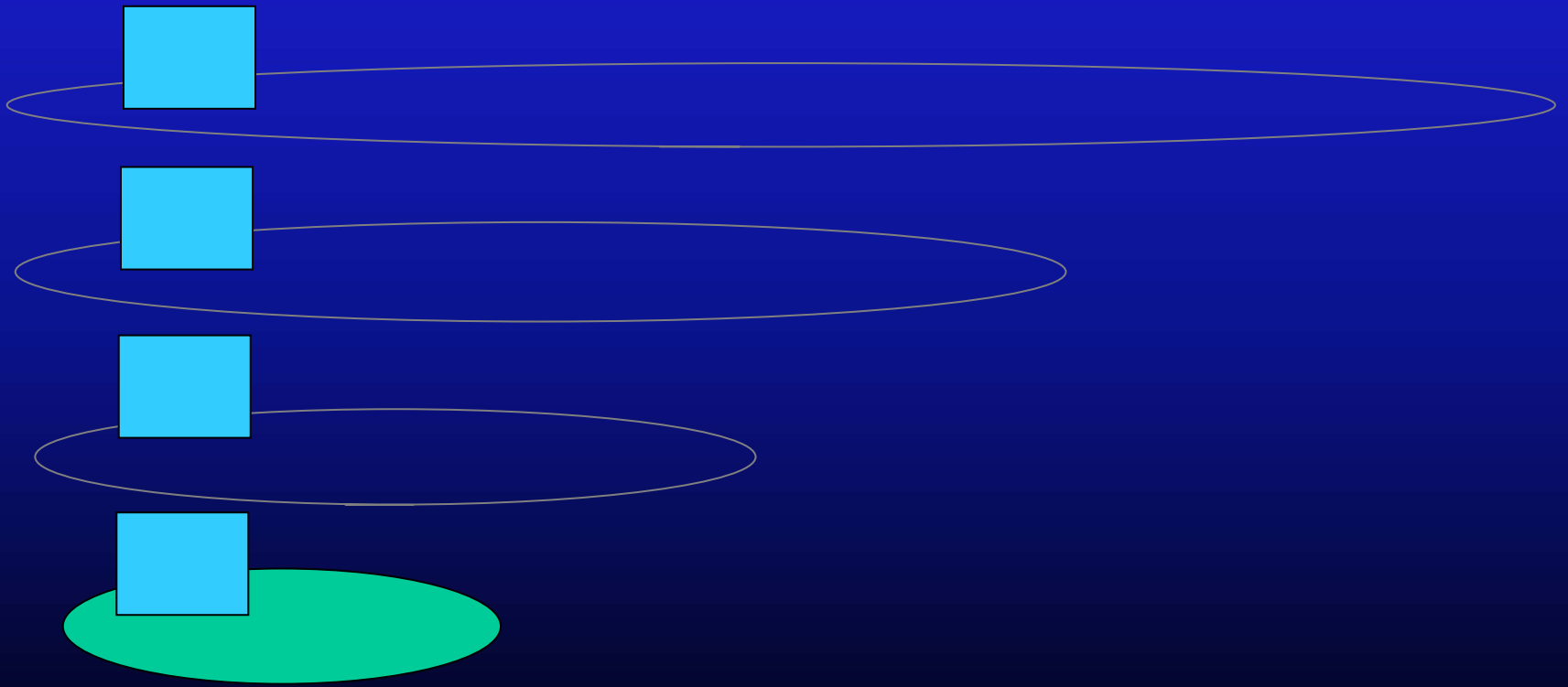
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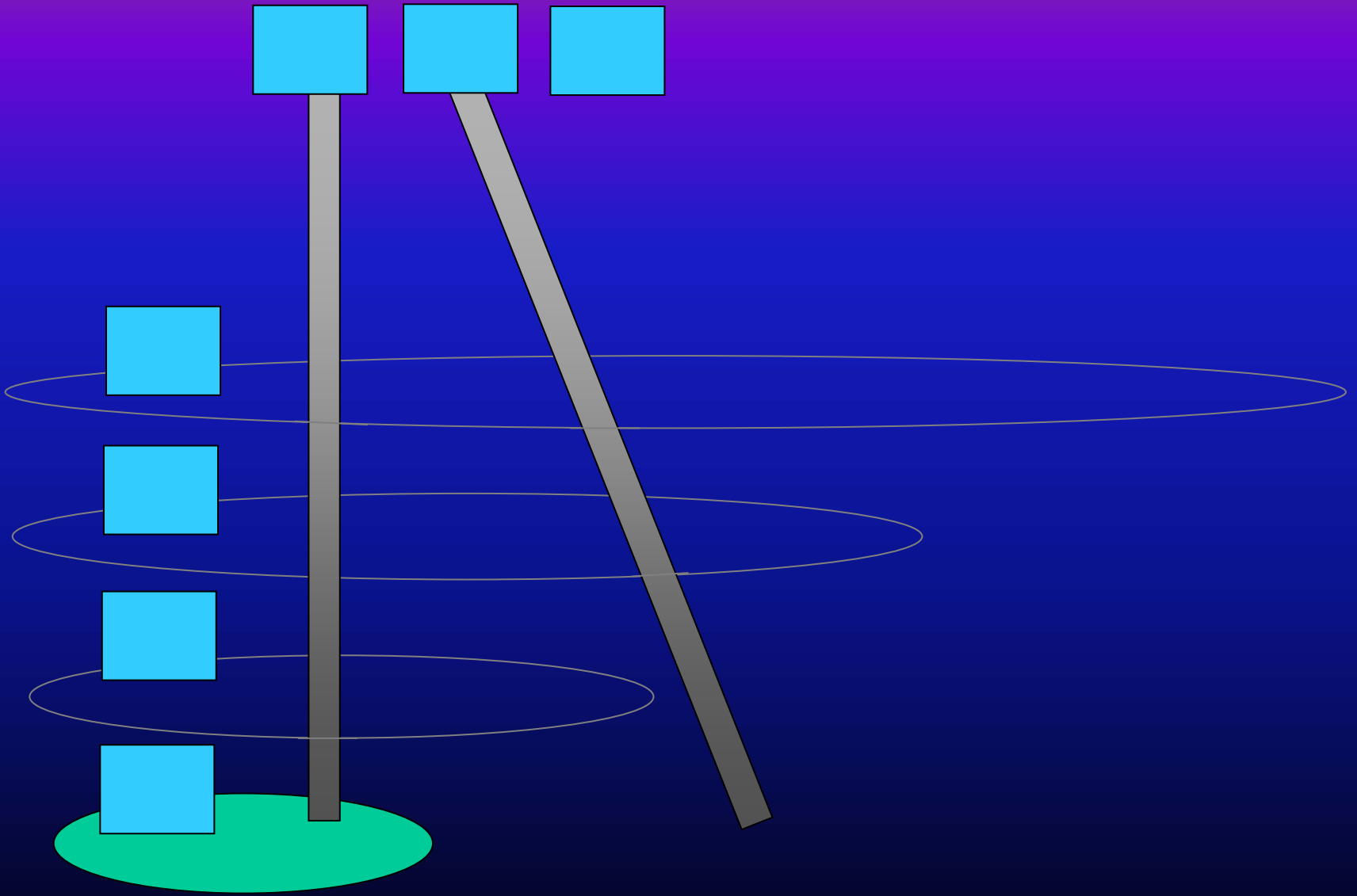
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The ISTAR Operating Environment

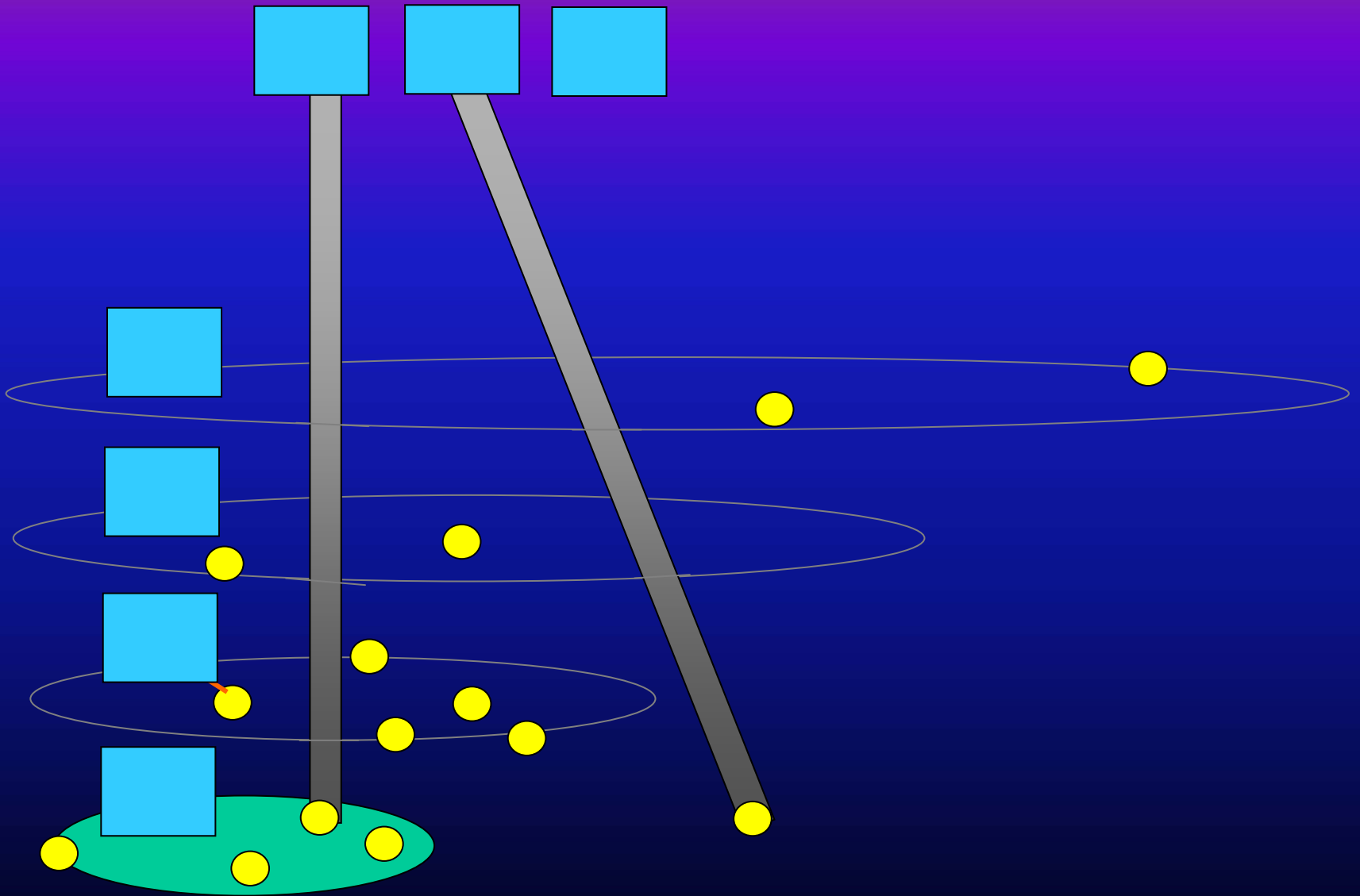
- Since the Cold War:
 - small, fast, surveillance aware targets
 - impact of accountability - collateral damage
 - risk averse conditions
 - multi-sensor platforms and processing
 - near-real time outputs, any time
 - expectations of higher tempo

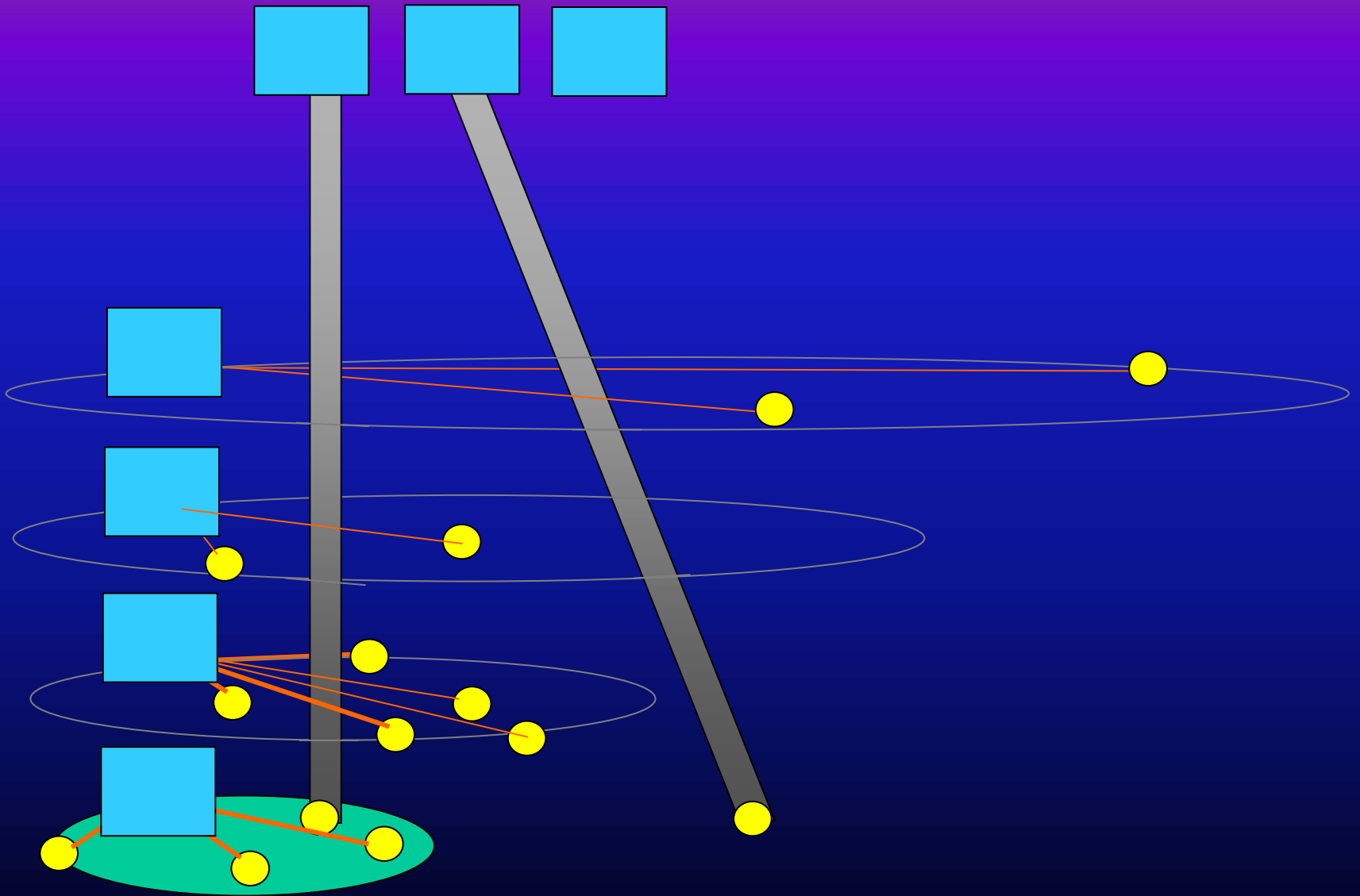


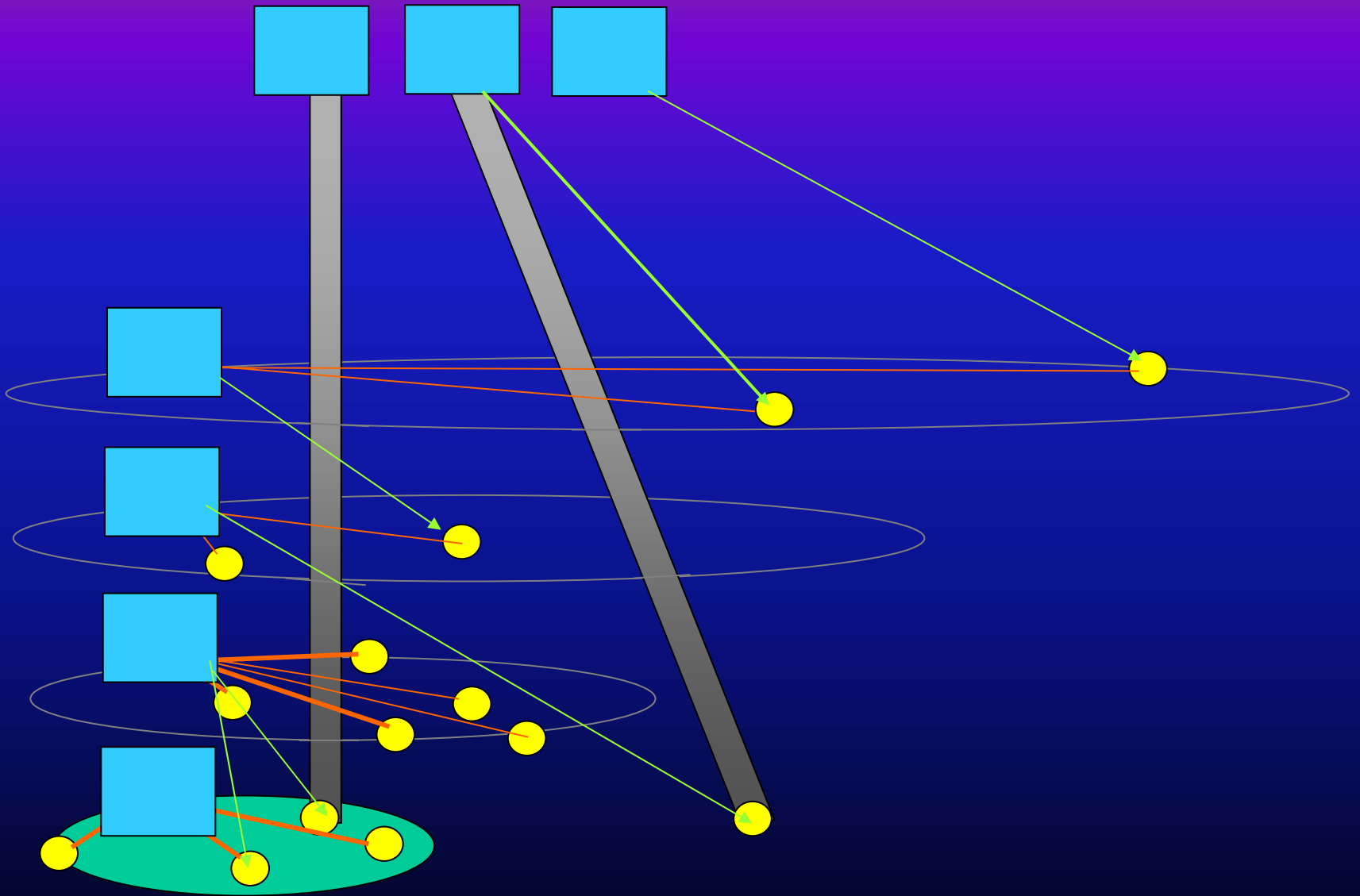


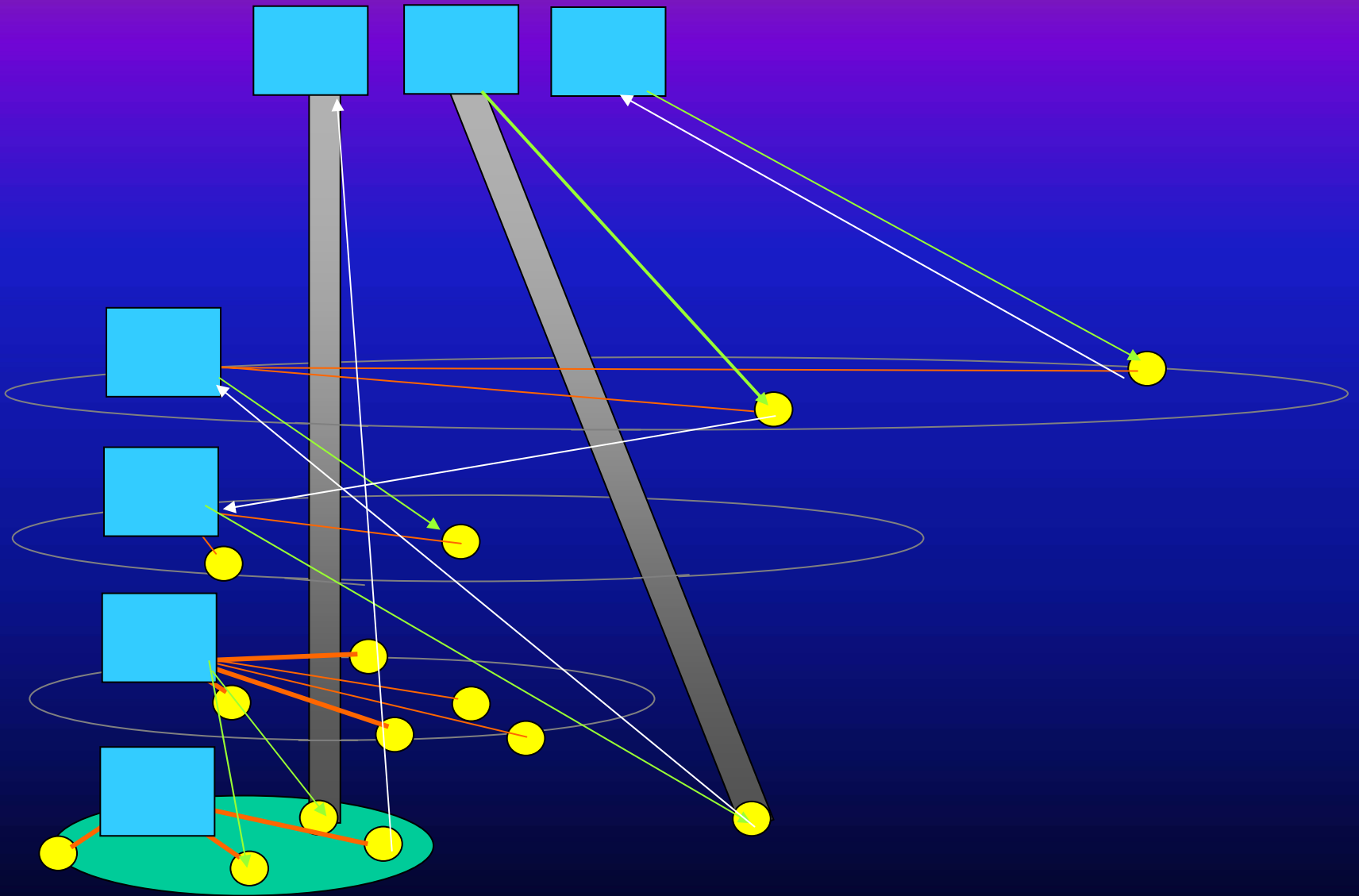


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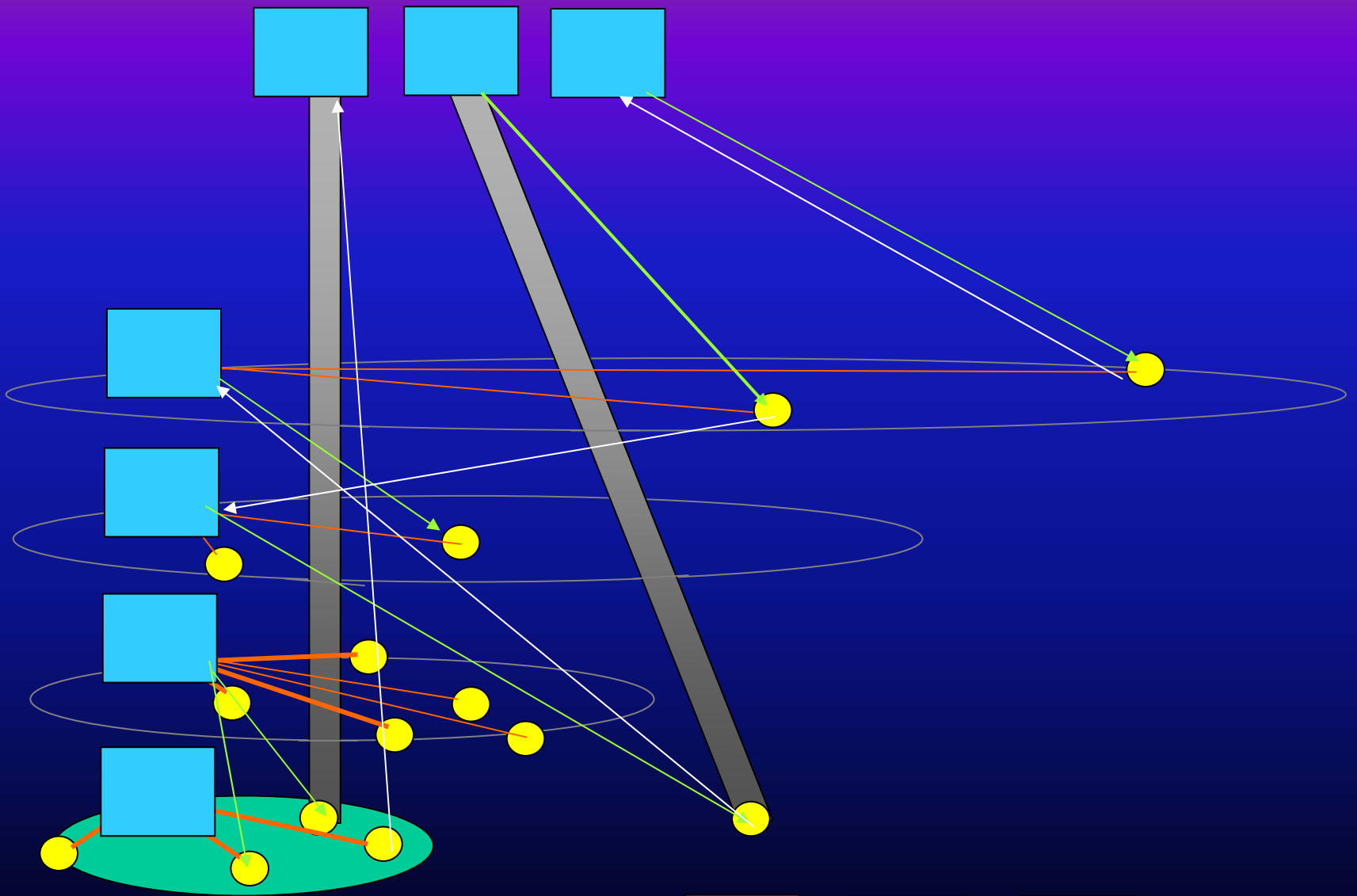


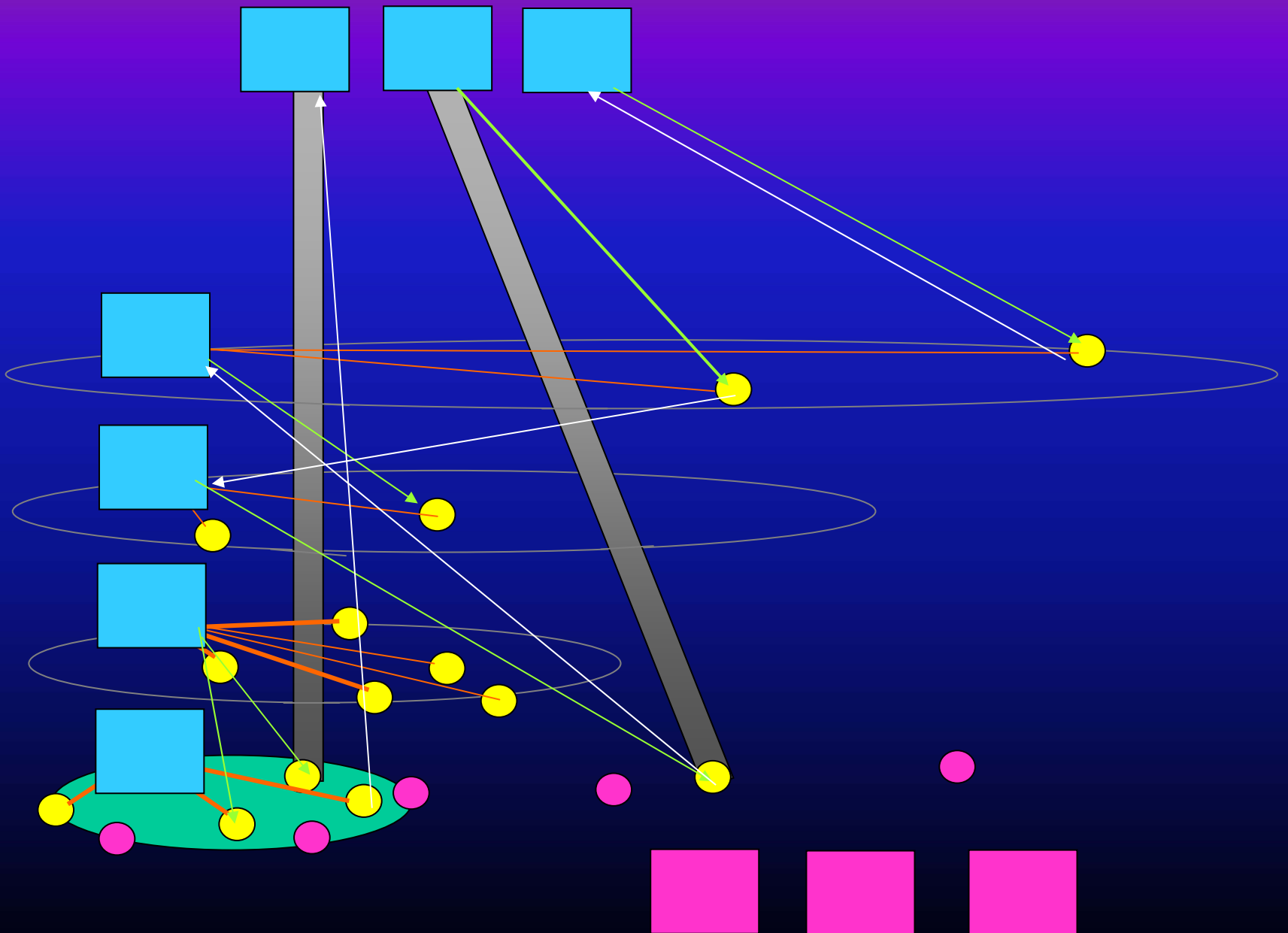
Who has got it

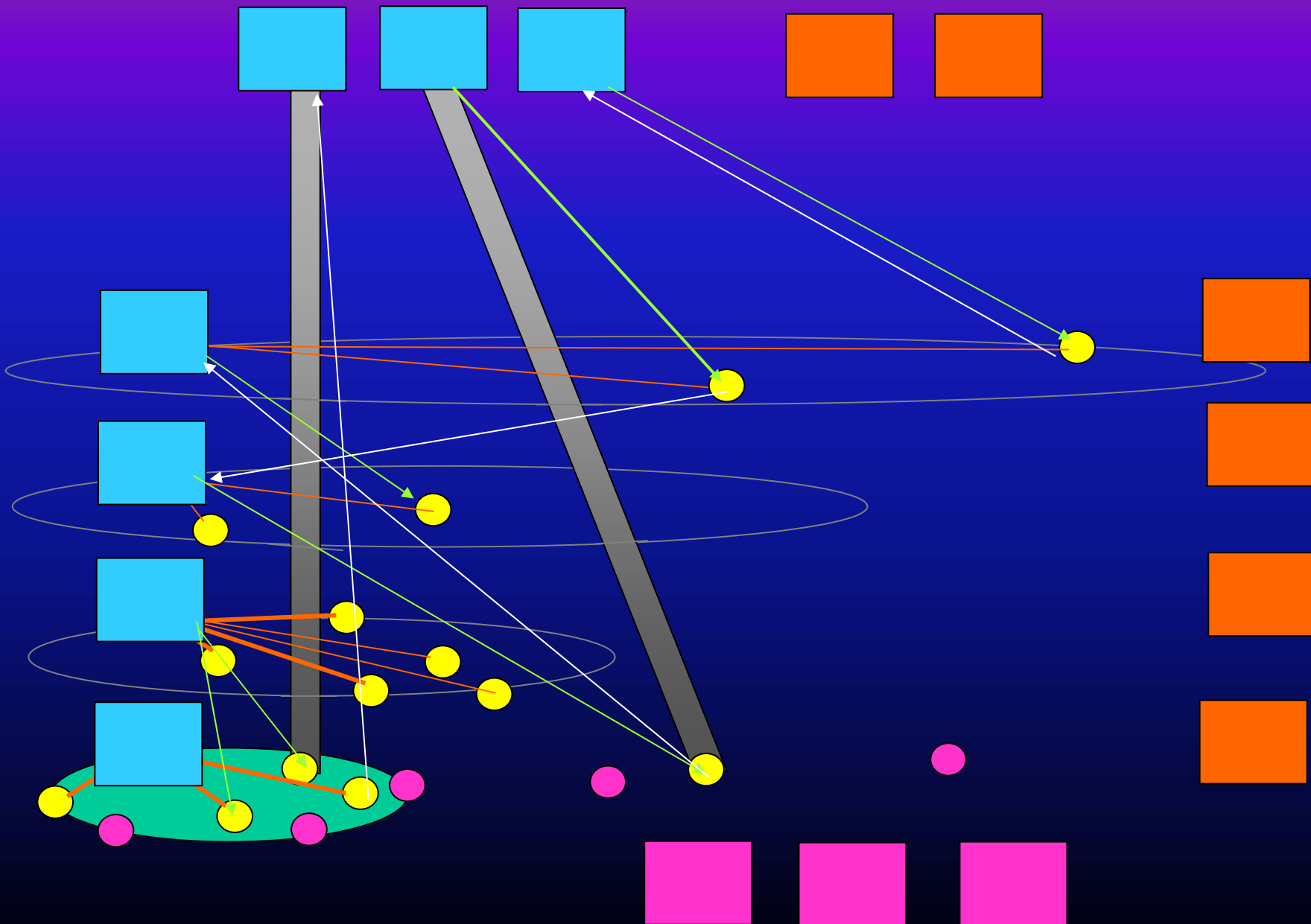
Who wants it

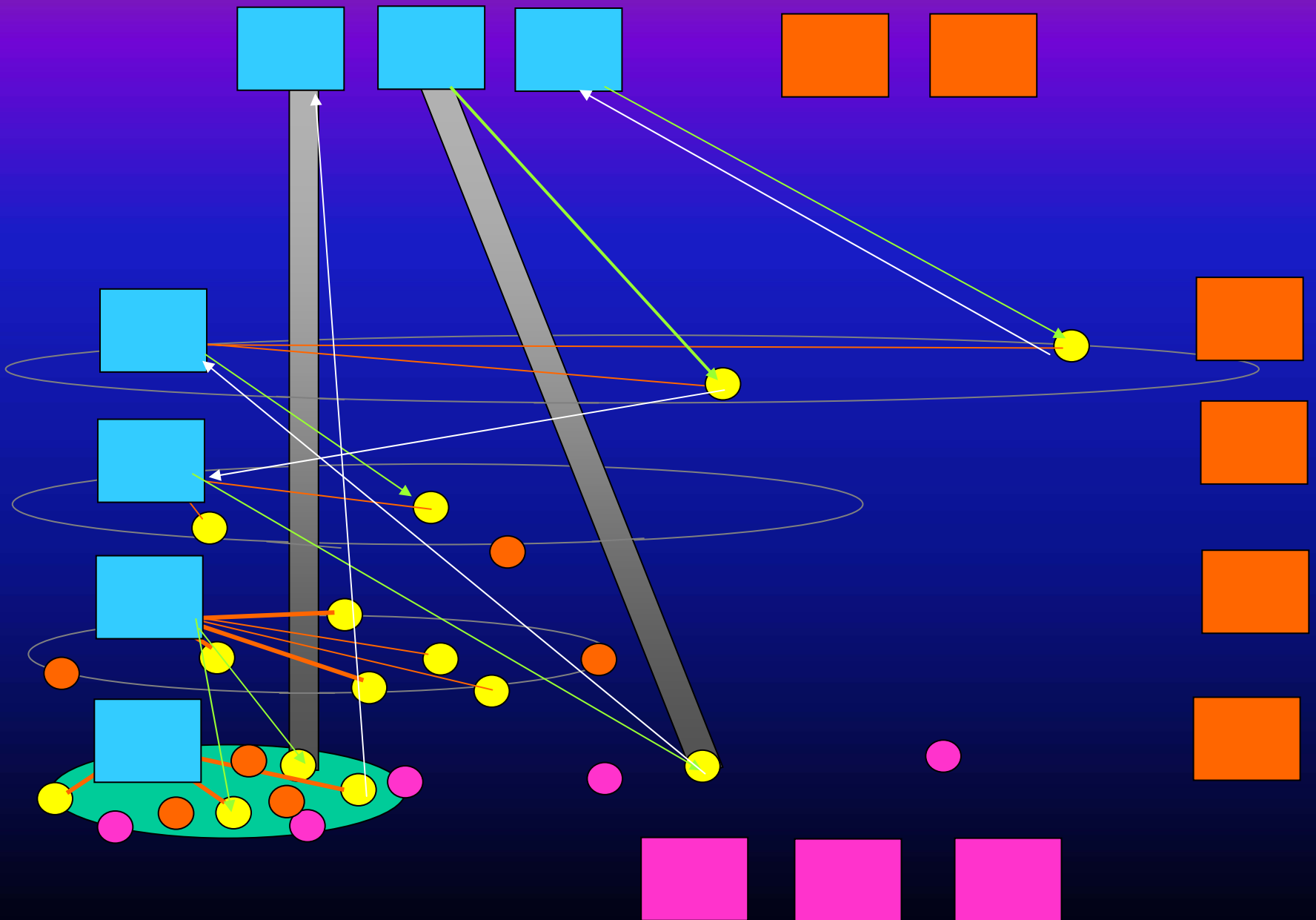
Who knows who has got it


Who knows who wants it

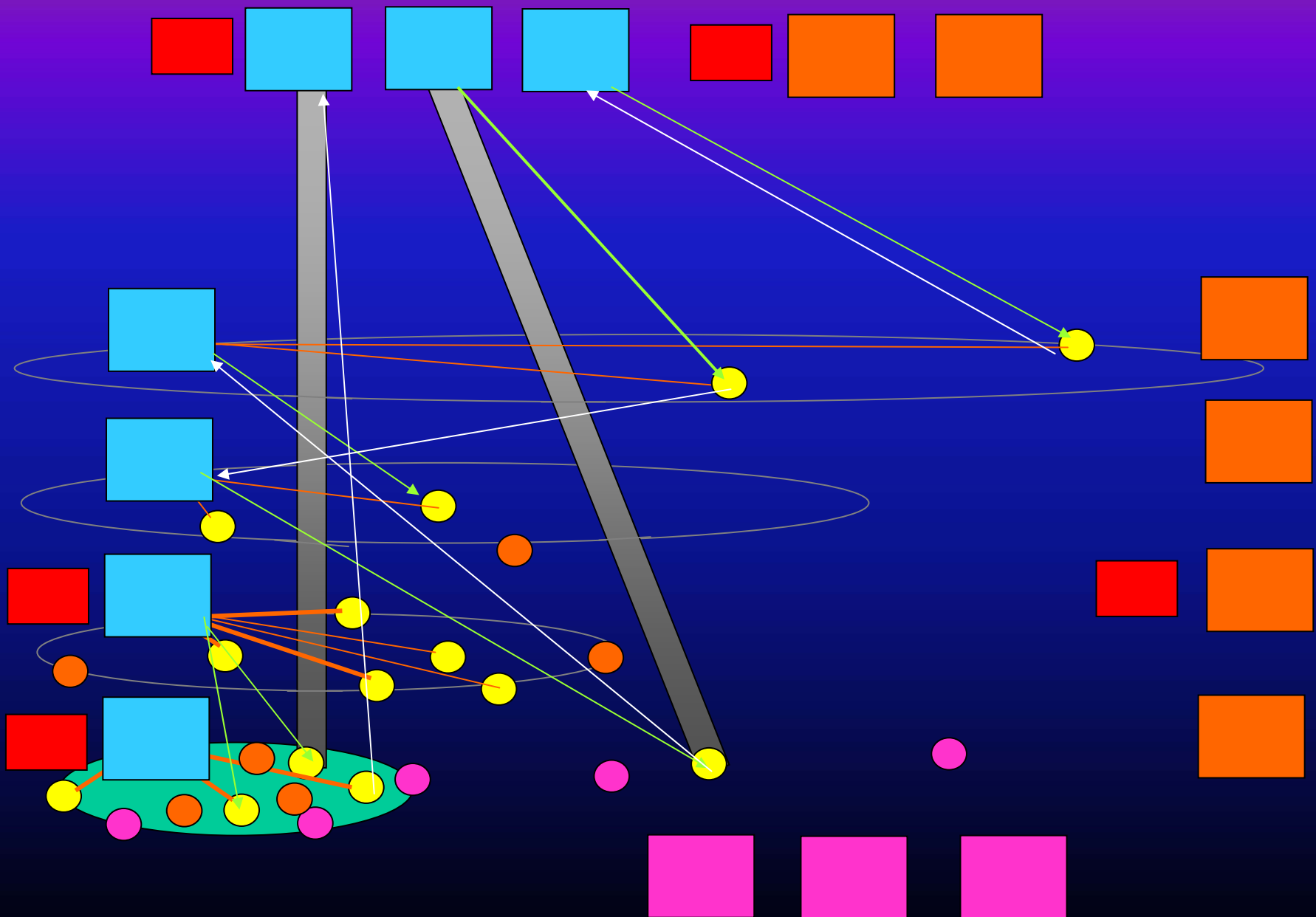


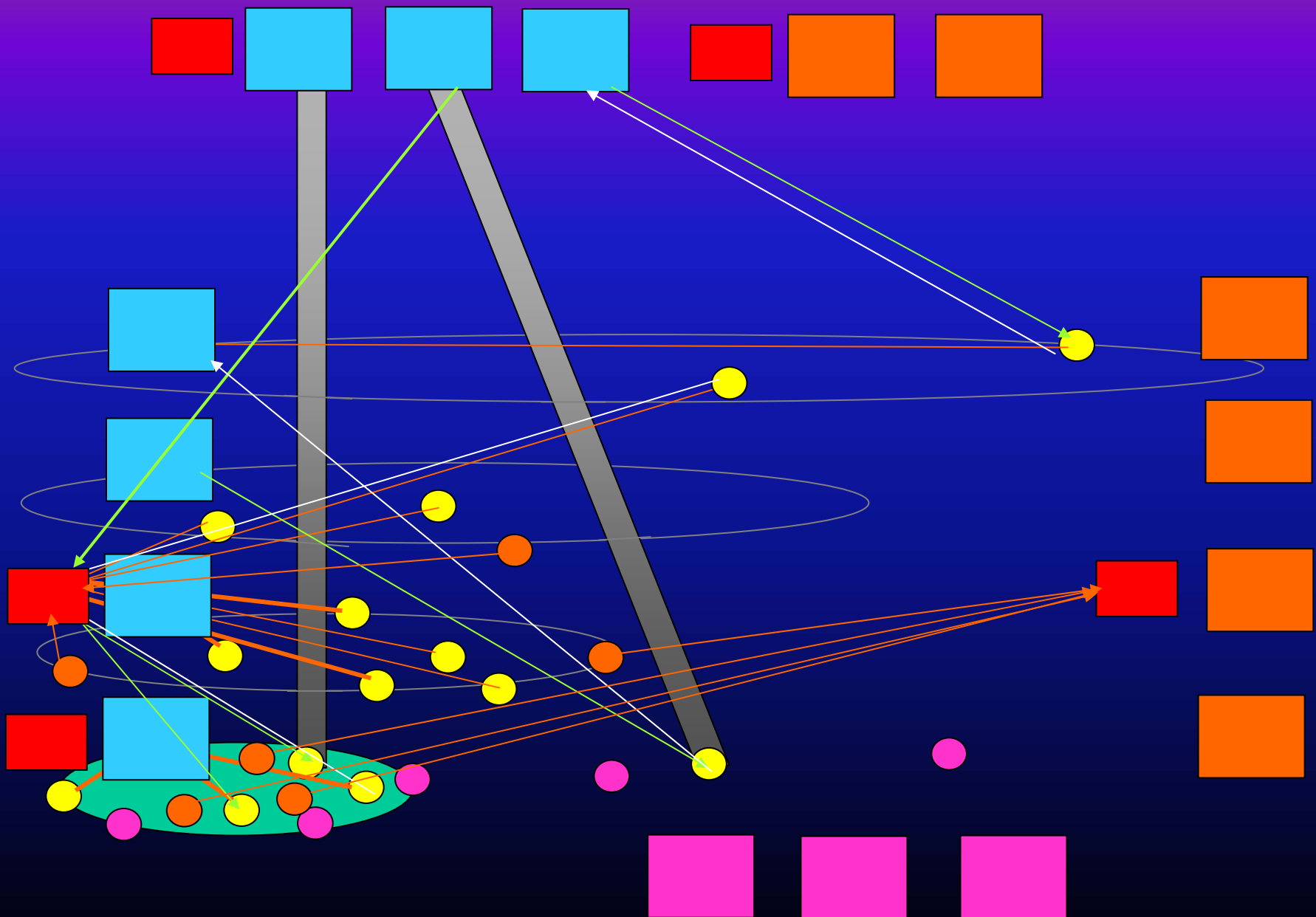


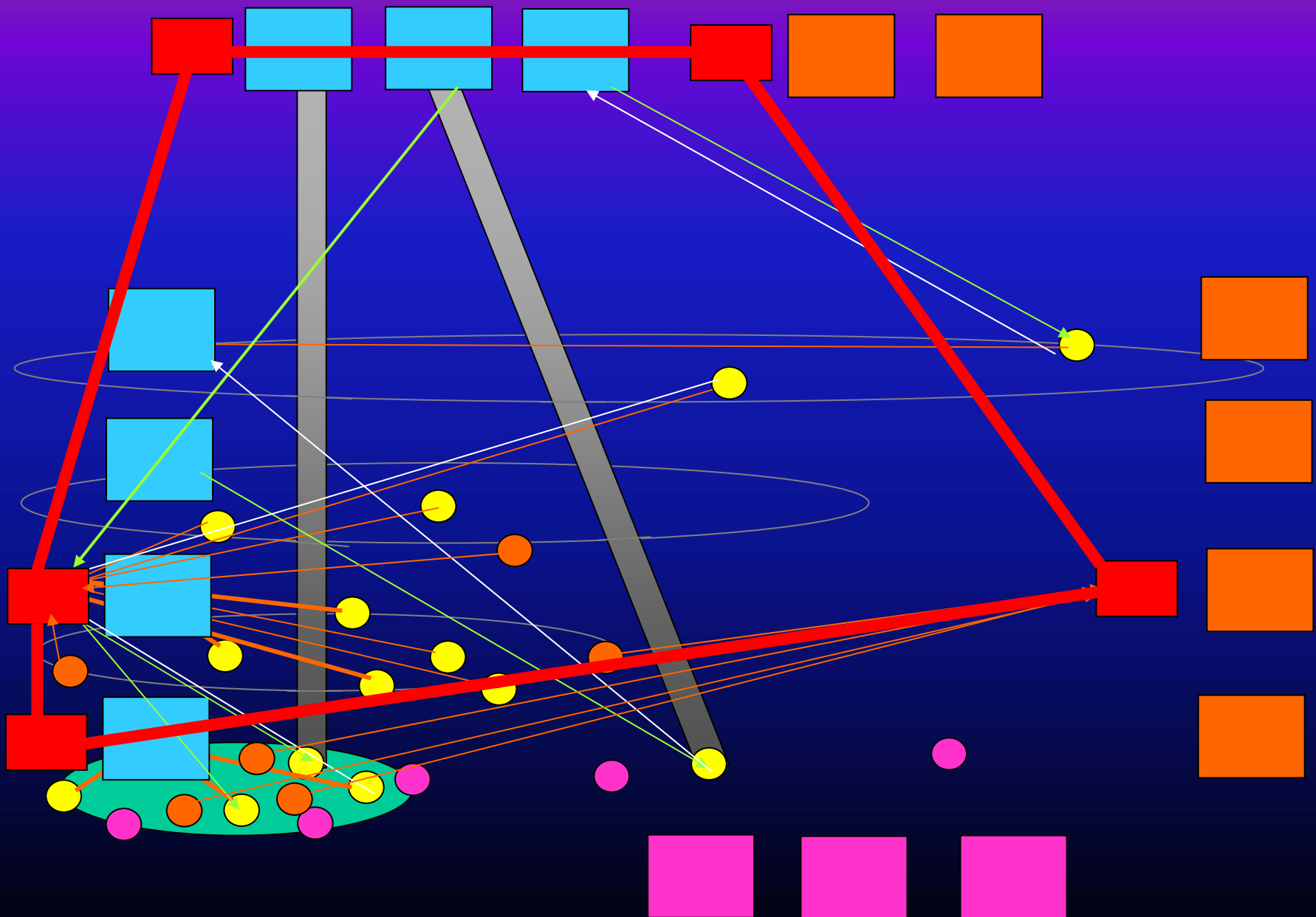




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- Federation of sensors/ fusion centres.
 - Use of fusion agents
 - Split-based working
 - Collaborative production
 - Contextually relevant information







Theatre Architecture Problems

- **Complicated networks**
- **Security levels and access rights**
- **Data v. information v. intelligence**
- **Timeliness and response**
- **Quality control**
- **Directory to Information**
- **Communities of Interest**
- **Collaborative working**
- **Database maintenance**
- **Double feed back**

Other Problems

- Customer 2 is diverse and numerous
- Emerging doctrine, imminent capability
- Operational experience shared thinly
- Wealth of data, limited fusion capability
- Digitising the “enemy” ?
- Counter-measures and deception v. tempo

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Theatre Architecture Problems

Operational

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Operational

Procedural

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Operational

Procedural

Technical

Part of a Solution

- **Where is:**
 - **A concentration of ISTAR expertise?**
 - **The only joint ISTAR training done?**
 - **The only training ISTAR SE?**
 - **The know-how to build an ISTAR testbed?**
 - **A need for a Joint ISTAR training SE?**
 - **A recent operational database (KOSOVO)?**
 - **A facility ready made to run experiments?**

Industry & Malvern

DISC Chicksands

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 - **there a concentration of ISTAR expertise?**
 - **The only joint ISTAR training done?**
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Evolution not Revolution

But quickly

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