

Smart City

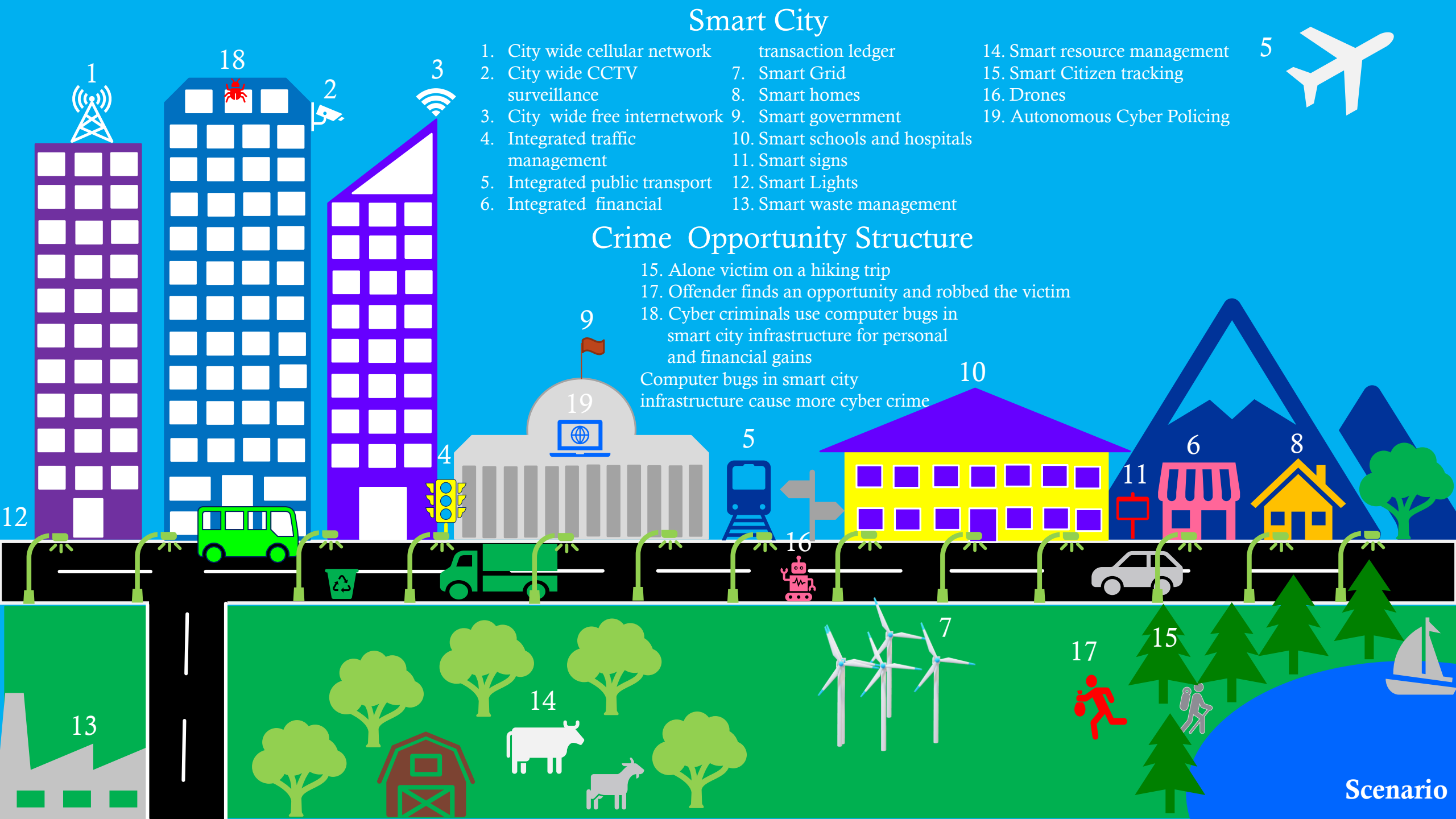
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|------------------------------------|---------------------------------|-------------------------------|
| 1. City wide cellular network | transaction ledger | 14. Smart resource management |
| 2. City wide CCTV surveillance | 7. Smart Grid | 15. Smart Citizen tracking |
| 3. City wide free internet network | 8. Smart homes | 16. Drones |
| 4. Integrated traffic management | 9. Smart government | 19. Autonomous Cyber Policing |
| 5. Integrated public transport | 10. Smart schools and hospitals | |
| 6. Integrated financial | 11. Smart signs | |
| | 12. Smart Lights | |
| | 13. Smart waste management | |

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Crime Opportunity Structure

- 15. Alone victim on a hiking trip
 - 17. Offender finds an opportunity and robbed the victim
 - 18. Cyber criminals use computer bugs in smart city infrastructure for personal and financial gains
- Computer bugs in smart city infrastructure cause more cyber crime



Scenario

3. Cyber criminals attacks a building smart lock, locks all residents and demand ransom for unlocking

Functions

- Public Order
- Public Safety
- Law Enforcement
- Crime Prevention
- Crime Investigation

Challenges

- Data Collection , Processing And Privacy
- Cyber And Cyber-physical Systems Security
- Law Enforcement On Remote Suburbs And Cyber Space
- Prevention And Not Reaction
- New Type Of Crimes With New Type Of Infrastructure
- Communication And Information Sharing

Opportunities

- Context-aware Data Analysis
- Data Driven Crime Probability Predictions
- Autonomous Crime Prevention With Autonomous Vehicle
- Data Driven Crime Investigation
- Use Of Robotics For Keeping Human Police Out of Harm's Way
- Autonomous Information and Communication Sharing
- Hyper Connectivity of City Sensors



4. Cyber action taken autonomously to tackle the ransomware

1. Robber activity Is tracked with a remote IMSI catcher

2.A drone dispatched autonomously to tackle the robber

Action

