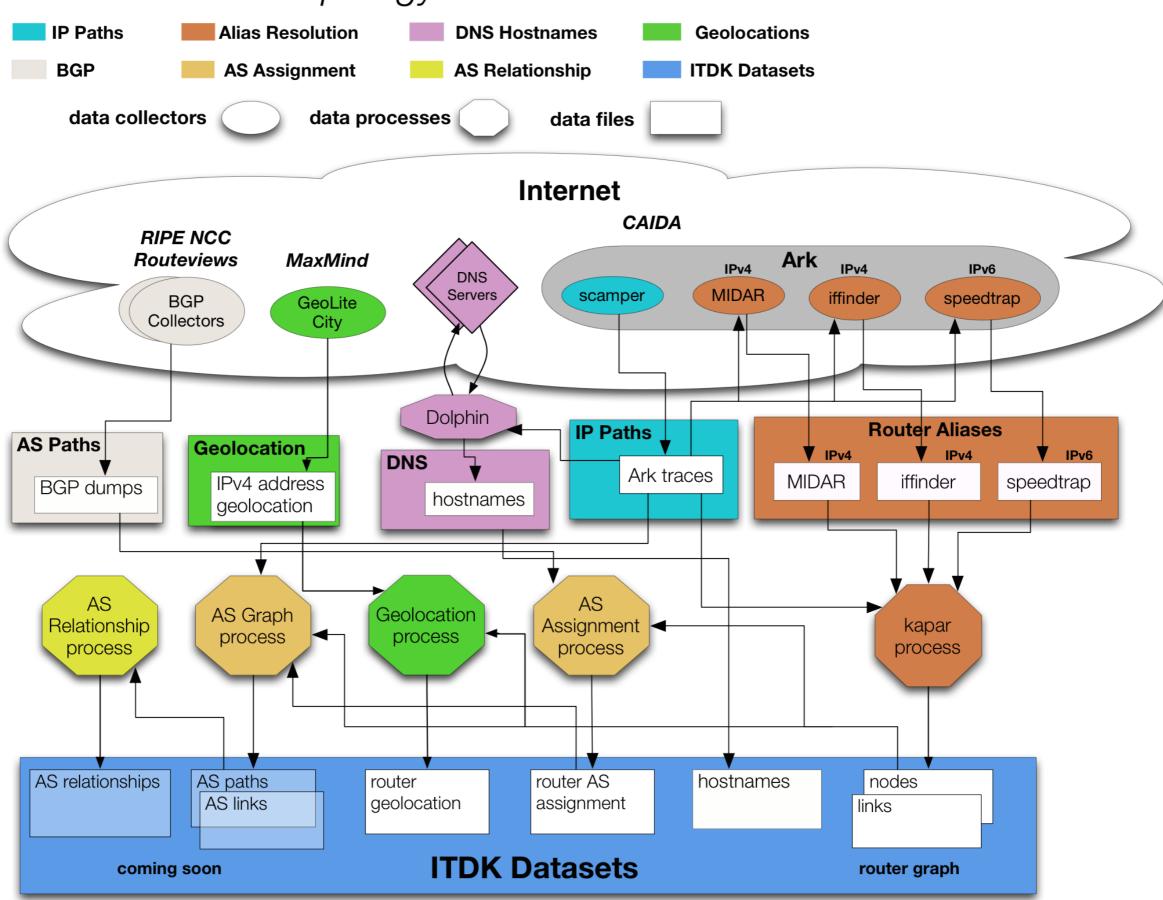
DIBBS EI: Platform for Applied Network Data Analysis (PANDA)

CAIDA

PANDA

- Existing Data Building Blocks to Integrate
 - Archipelago Active Internet Measurement Platform and Supporting Components
 - ASRank: Comparison of routing and economic relationships among ISPs
 - BGPStream: efficient framework for routing (BGP) data analysis
 - Periscope: Extending measurement coverage by leveraging operational infrastructure
 - MANIC: Mapping and Analysis of Interdomain Congestion
 - Spoofer: Assessment of IP address validation best practices (Waikato)

ITDK: Internet Topology Data Kit Process



3 Tasks

- Task 1: PANDA: Platform for Applied Network Data Analysis
 - Software development to scale performance and functionality for community use
 - Create software modules to link components to each other and external software
 - Increase community accessibility of unified platform and underlying components
- Task 2: Support for and collaboration with multiple disciplines
- Task 3: Extensibility and adaptation to new opportunities

Overview



existing — planned ·-----

caida

Measurement Software and Hardware Infrastructures to Support Data Collection

Resulting Databases and Datasets



ASRank [AR]

CAIDA Platforms

ISPs' Autonomous System (AS) ranking and relationships

topology query system

BGPStream [BS] Collector/Database for processing BGP data

Spoofer [Spfr] (538)
[Ark,User] run code to check for "spoofed" addreses

Periscope [Per] Interface to public looking glass interfaces

Hosting Organizations

Letter Of Collaboration (LOC)

Waikato University [WaiU] RIPE NCC [RIPE] University of Twente [UTwe] University of Pisa [UPisa]

DigitalElements [DE]

MAXMIND [Max] Hurrican Electric [HE] (H)

Federal Communication Commission [FCC]

Regional Internet Registry [RIR]

Route Views[RV] (I) Cloudscene[CS]

Amazon [Amzn]

PeeringDB[PDB]

Packet Clearing House [PCH] PCH

Users [User] Volunteers running measurement code

Operators [Op]
ISP Operators running measurement code

