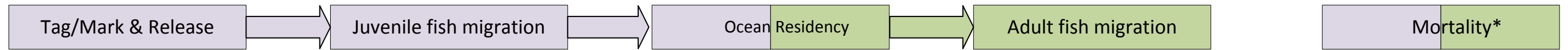# Data Collection[1] Associated with Fish Tagging/Marking Technologies

DRAFT: Example content pending input from Fish Tagging Forum subject matter experts
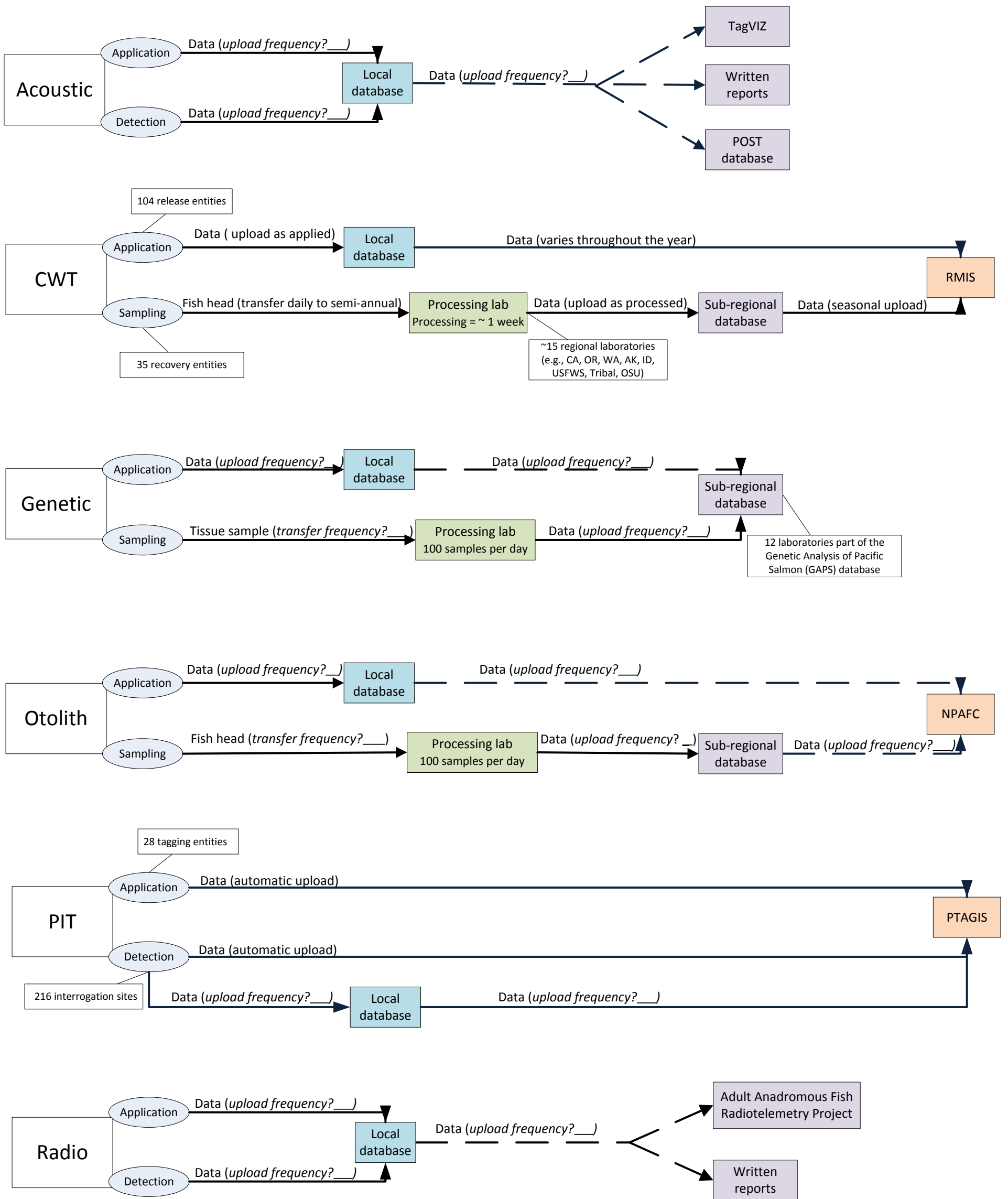
	Tag/Mark & Release	Juvenile fish migration	Ocean Residency	Adult fish migration	Mortality*
Adipose Fin Clip	*Distribution/coordination:* (WHO?) *Mark application:* automated *Data collection:* manual *Data upload:* manual	*Collection locations:* mainstem, tributary *Data collection:* visual/manual *Data upload:* manual	*Data collection:* visual/manual *Data upload:* manual	*Collection locations:* mainstem, tributary *Data collection:* visual/manual *Data upload:* manual	*Collection locations:* mainstem, ocean, tributary *Data collection:* visual/manual *Data upload:* manual
Acoustic	*Distribution/coordination:* NOAA, USACE, PUD *Tag application:* manual *Data collection:* manual *Data upload:* manual	*Collection locations:* mainstem, tributary *Data collection:* automated *Data upload:* manual upload *Data processing:* UW (JSATS), *POST database*, (PUDs?)	*Data collection:* automated *Data upload:* manual upload *Data processing:* UW (JSATS), *POST database*, (PUDs?)	N/A	*Collection locations:* mainstem, ocean, tributary *Data collection:* automated *Data upload:* manual *Data processing:* UW (JSATS), *POST database*, (PUDs?)
Genetic	*Distribution/coordination: Genetic Analysis of Pacific Salmon (GAPS) collaborators* *Data collection:* manual *Data upload:* manual	*Collection locations:* mainstem, tributary *Data collection:* manual *Sample collection:* manual *Data upload:* manual upload *Lab processing:* (WHO?)	*Sample collection:* manual *Data collection:* manual *Data upload:* manual upload *Lab processing:* (WHO?)	*Collection locations:* mainstem, tributary *Data collection:* manual *Sample collection:* manual *Data upload:* manual upload *Lab processing:* (WHO?)	*Collection locations:* mainstem, ocean, tributary *Data collection:* manual *Sample collection:* manual *Data upload:* manual *Lab processing:* (WHO?)
CWT	*Distribution/coordination:* Regional Committee on Marking and Tagging (Mark Committee) *Tag application:* automated, manual *Data collection:* manual *Data upload:* manual	See Mortality*	See Mortality*	See Mortality*	*Collection locations:* mainstem, ocean, tributary *Data collection:* manual *Sample collection:* manual *Lab processing:* CWT processing lab *Data upload:* manual
Otolith	*Distribution/coordination: The North Pacific Anadromous Fish Commission (NPAFC)* *Mark application:* automated *Data collection:* manual *Data upload:* manual	See Mortality*	See Mortality*	See Mortality*	*Collection locations:* mainstem, ocean, tributary *Data collection:* manual *Sample collection:* manual *Lab processing:* (WHO?) *Data upload:* manual
PIT	*Distribution/coordination: PIT Tag Coordinator (Kennewick field office), PTSC* *Tag application:* manual *Data collection:* manual or automated *Data upload:* automatic or manual	*Collection locations:* mainstem, tributary *Data collection:* automated & manual *Data upload:* automatic or manual	*Data collection:* automated & manual *Data upload:* automatic or manual	*Collection locations:* mainstem, tributary *Data collection:* automated & manual *Data upload:* automatic or manual	*Collection locations:* mainstem, ocean, tributary *Data collection:* automated & manual *Data upload:* automatic or manual
Radio	*Distribution/coordination:* small group of experts/ vendors *Tag application:* manual *Data collection:* manual *Data upload:* manual	*Collection locations:* mainstem, tributary *Data collection:* automated *Data upload:* manual	N/A	*Collection locations:* mainstem, tributary *Data collection:* automated *Data upload:* manual	*Collection locations:* mainstem, ocean, tributary *Data collection:* automated *Data upload:* manual

NOTES

* Fish mortality data may be collected at any stage of the fish life cycle from research, harvest, recovered carcasses, and predators

1 See page 2 for information associated with data systems

Italicized text indicates data collected outside Fish Tagging Forum materials

Juvenile salmonid

Adult salmonid

Data Management Systems[1] Associated with Fish Tagging/Marking Technologies
DRAFT: Example content pending input from Fish Tagging Forum subject matter experts

Acoustic

Application → Data (*upload frequency?___*) → Local database
Detection → Data (*upload frequency?___*) → Local database

Local database → Data (*upload frequency?___*) →
- TagVIZ
- Written reports
- POST database

CWT

104 release entities

Application → Data (upload as applied) → Local database → Data (varies throughout the year) → RMIS

35 recovery entities

Sampling → Fish head (transfer daily to semi-annual) → Processing lab Processing = ~ 1 week → Data (upload as processed) → Sub-regional database → Data (seasonal upload) → RMIS

~15 regional laboratories (e.g., CA, OR, WA, AK, ID, USFWS, Tribal, OSU)

Genetic

Application → Data (*upload frequency?___*) → Local database → Data (*upload frequency?___*) → Sub-regional database

Sampling → Tissue sample (*transfer frequency?___*) → Processing lab 100 samples per day → Data (*upload frequency?___*) → Sub-regional database

12 laboratories part of the Genetic Analysis of Pacific Salmon (GAPS) database

Otolith

Application → Data (*upload frequency?___*) → Local database → Data (*upload frequency?___*) → NPAFC

Sampling → Fish head (*transfer frequency?___*) → Processing lab 100 samples per day → Data (*upload frequency?___*) → Sub-regional database → Data (*upload frequency?___*) → NPAFC

PIT

28 tagging entities

Application → Data (automatic upload) → PTAGIS

Detection → Data (automatic upload) → PTAGIS

216 interrogation sites → Data (*upload frequency?___*) → Local database → Data (*upload frequency?___*) → PTAGIS

Radio

Application → Data (*upload frequency?___*) → Local database
Detection → Data (*upload frequency?___*) → Local database

Local database → Data (*upload frequency?___*) →
- Adult Anadromous Fish Radiotelemetry Project
- Written reports

Legend

Sub-regional database
Sub-regional Database: These are projects or work elements within projects that contribute to the development, maintenance, and/or management of databases that are designed to store data collected in the field from one or more organizations (e.g., Idaho Fish and Wildlife Information System, CRITFC's Tribal Data Network).

Local database
Local Database: An entity's information repository that occurs within an individual project and collects data for a specific project objective.

Regional database
Regional Database: What we generally refer to as regional databases are designed to manage, store, and or synthesize data and information for specific users and the public. These databases incorporate data from multiple sources and are not restricted to an individual project's field data or to organizing data collected by an agency or tribe.

Processing lab
Processing Lab: The processing lab is responsible for further analysis of fish sample. Processing of the fish sample in the laboratory yields data required to track fish.

NOTES:
------- Indicates voluntary upload

Text in *italics* followed by a blank indicates an information gap

1 See page 1 for information associated with the methods of data collection