

Frontier-Rural Mobility Management: Coordination and Mobility using Advanced Technologies

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**Modoc County Transportation Commission
Alturas, California**

National Rural ITS Conference
Big Sky, Montana - August 14, 2006

Using Advanced Technology to Meet Public Transportation Goals by

- Improving coordination,
- Increasing operating efficiencies, and
- Providing more traveler information

. . . throughout (rural) California.

Web-based Functional System

An Integrated Database

of public, human service and private
transportation provider information

to help

Intercity Travelers Plan Trips

seamlessly (Internet) using multiple providers

Projects and Funding

Completed and Current

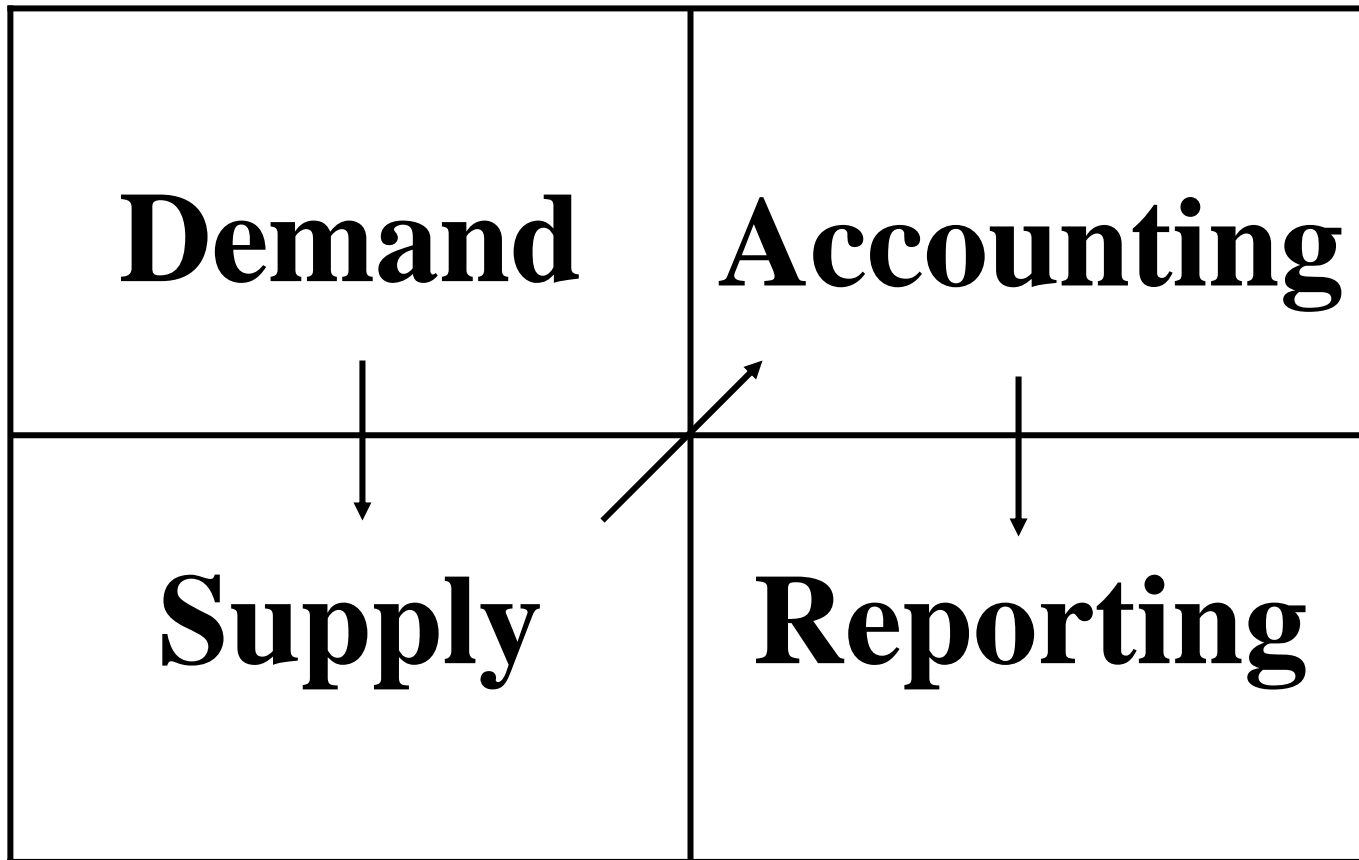
- Caltrans EJ Program – NEMT Coordination Study \$ **250K**
 - Partners – Mobility Applications Program **50K**
 - FTA – Mobility Management Center **150K**
 - Social Service Transportation Inventory
 - Caltrans DRI – Rural Trip Planner (demonstration) **250K**
 - FTA 5311(f) – Swipe Card/AVL – 8 vehicles **60K**
 - CTAA/USDA Tech Assistance – MMC Plan **90K**
-
- \$ 850K**

Projects and Funding

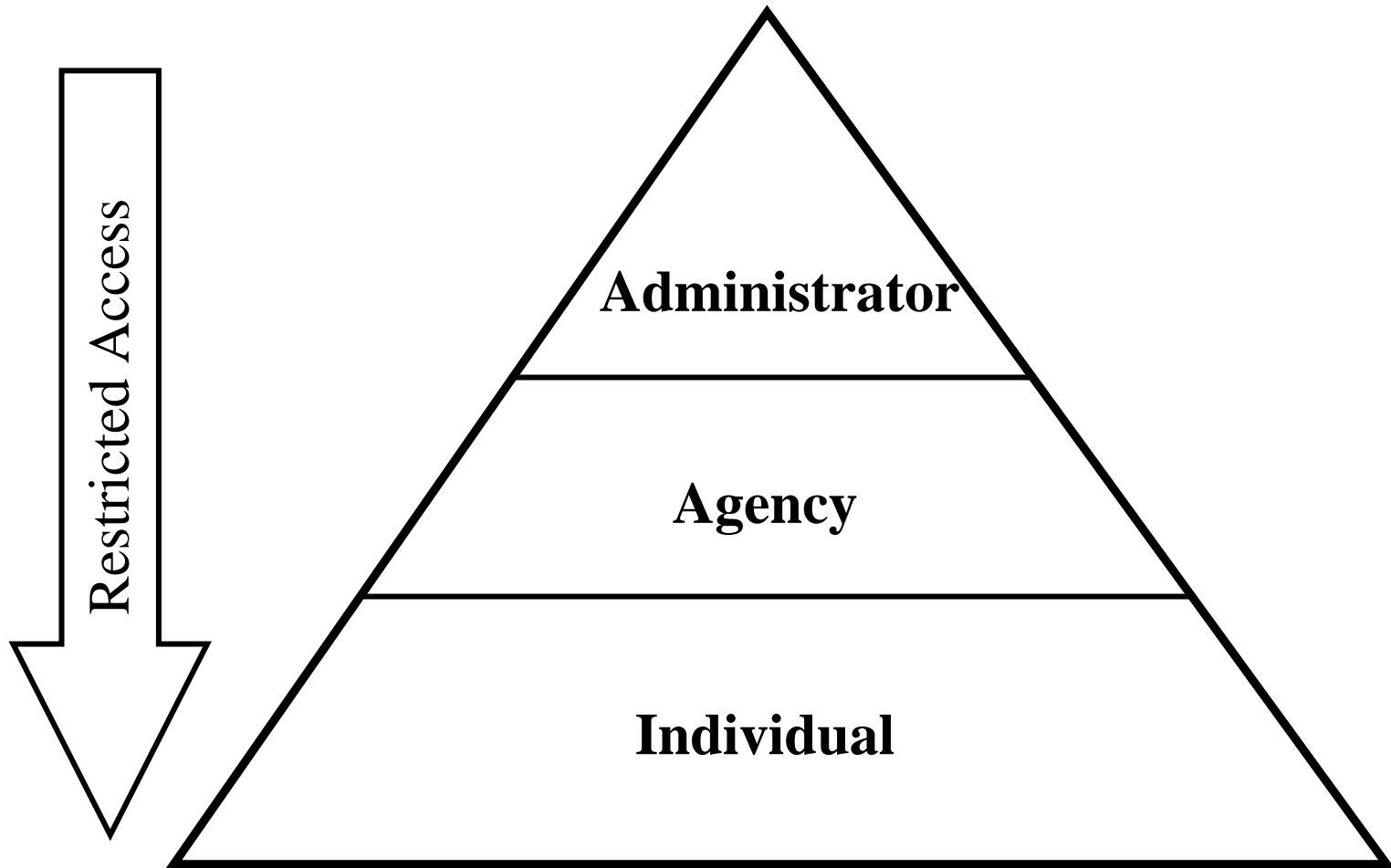
Next or Planned

- FTA - Enhanced Human Service Transportation \$ 405K
 - Caltrans Planning - *CALnnections* Marketing Plan 100K
 - FTA – EHST Phase 2 - Demonstration 1-2 M
- \$ 1.5 – 2.5 M**

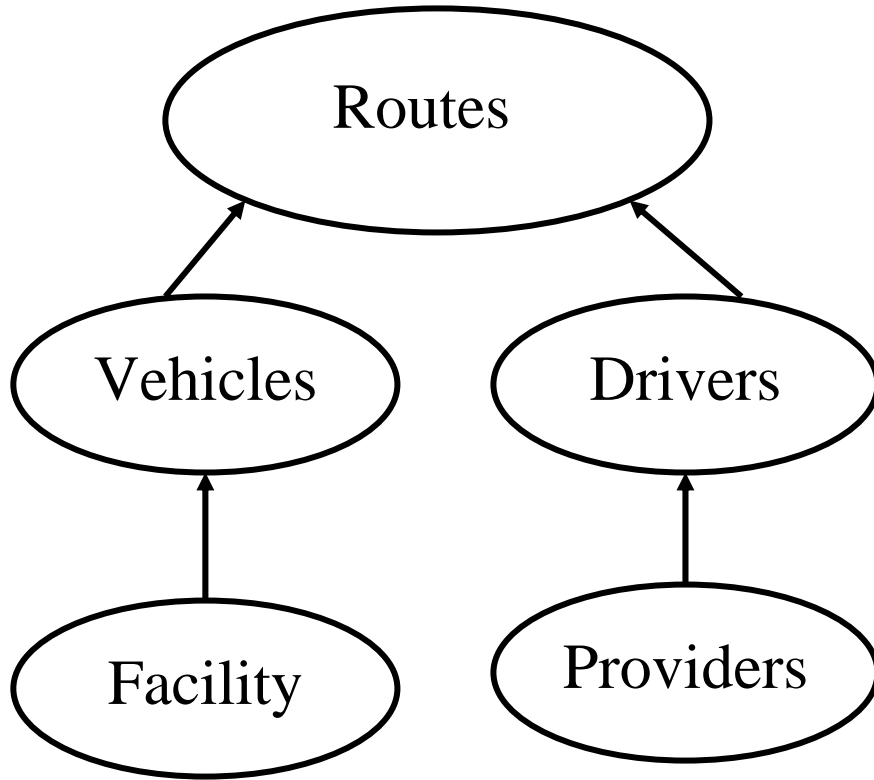
Rural Transportation Landscape



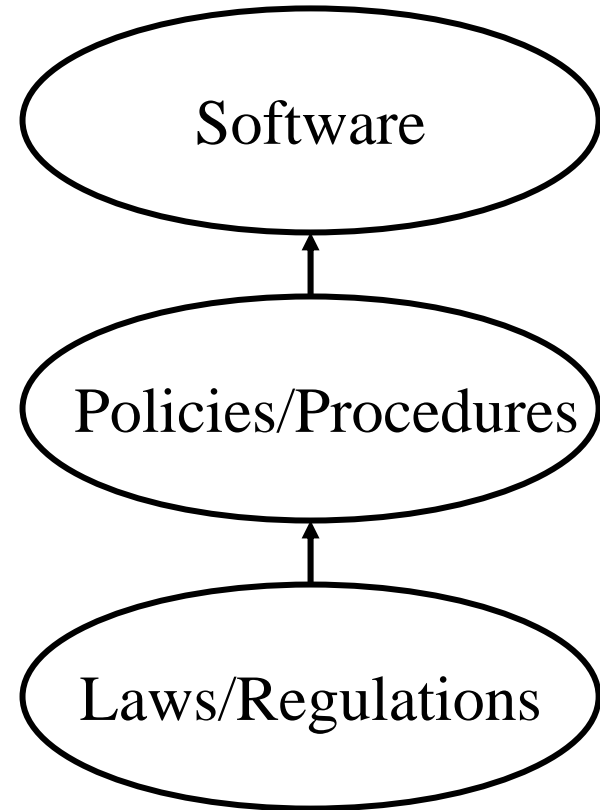
Demand Pyramid



Supply Side Components

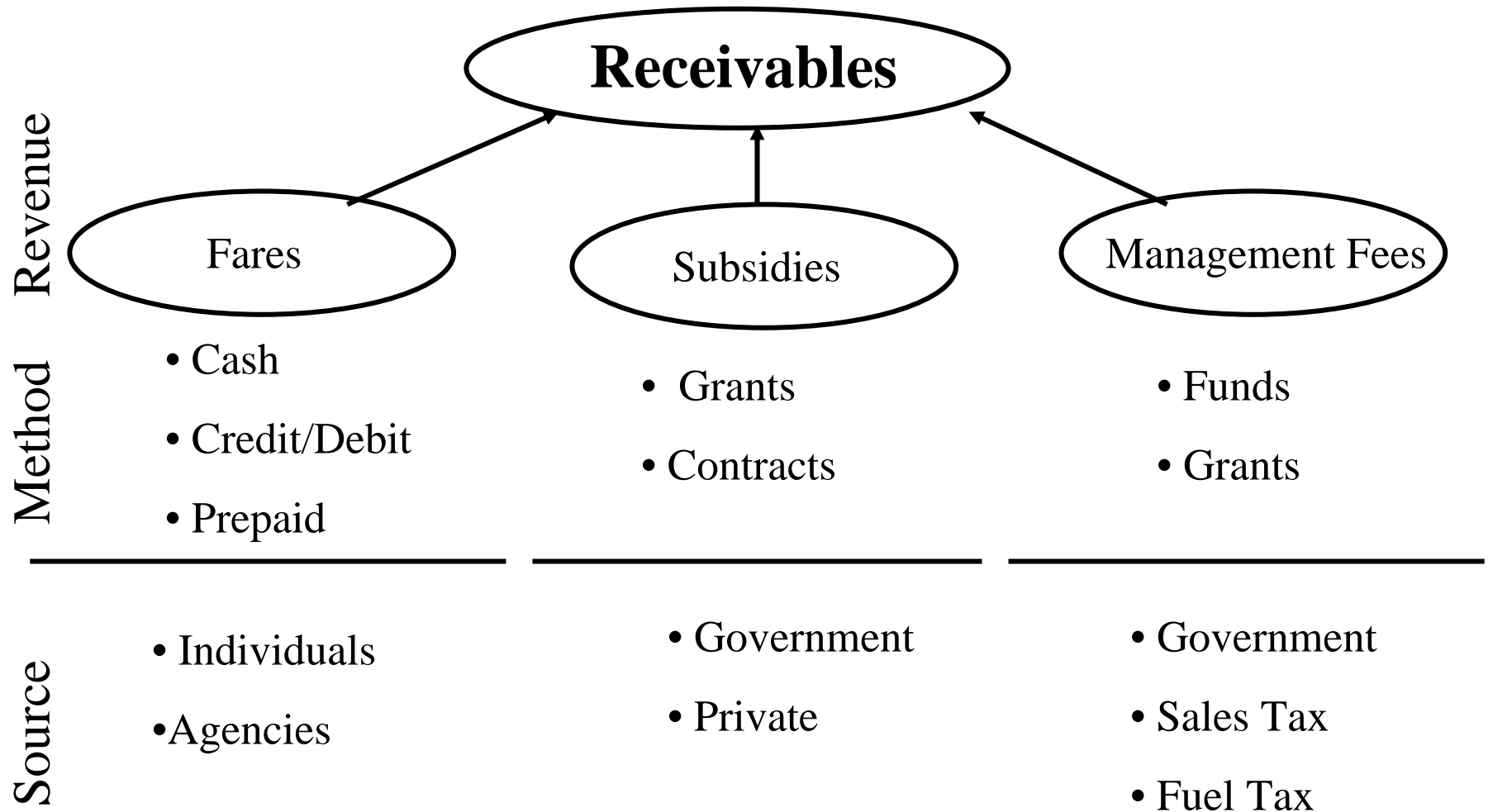


Resources

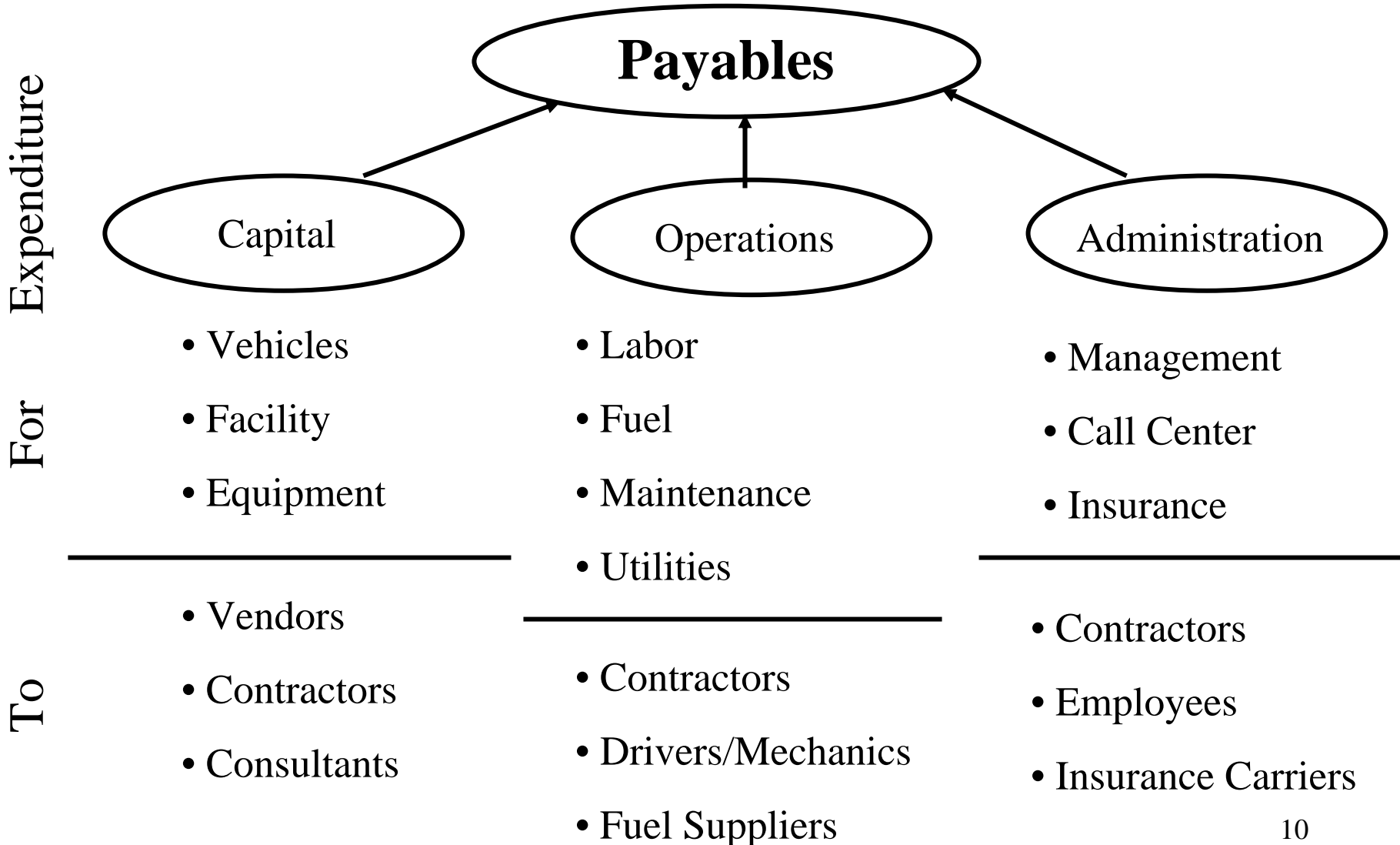


Management

Accounting Framework

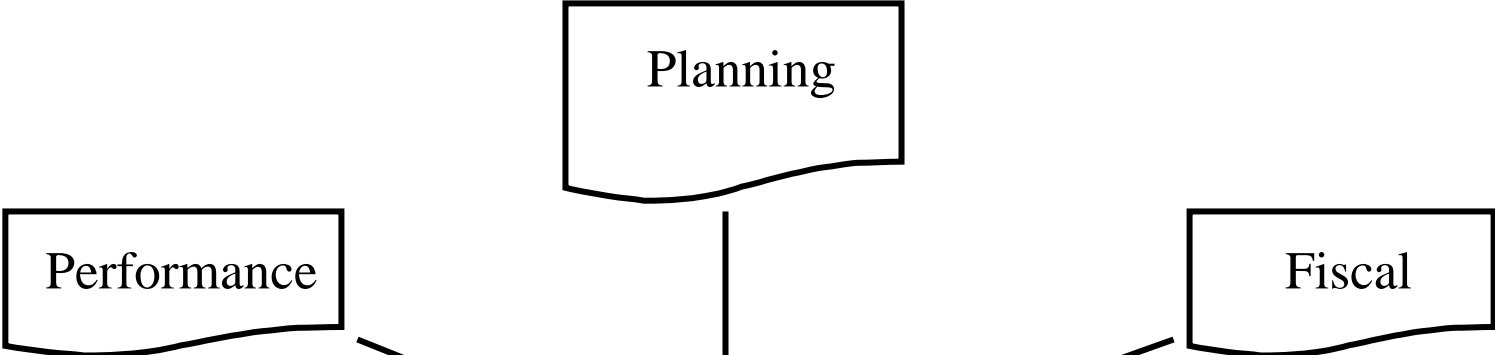


Accounting Framework

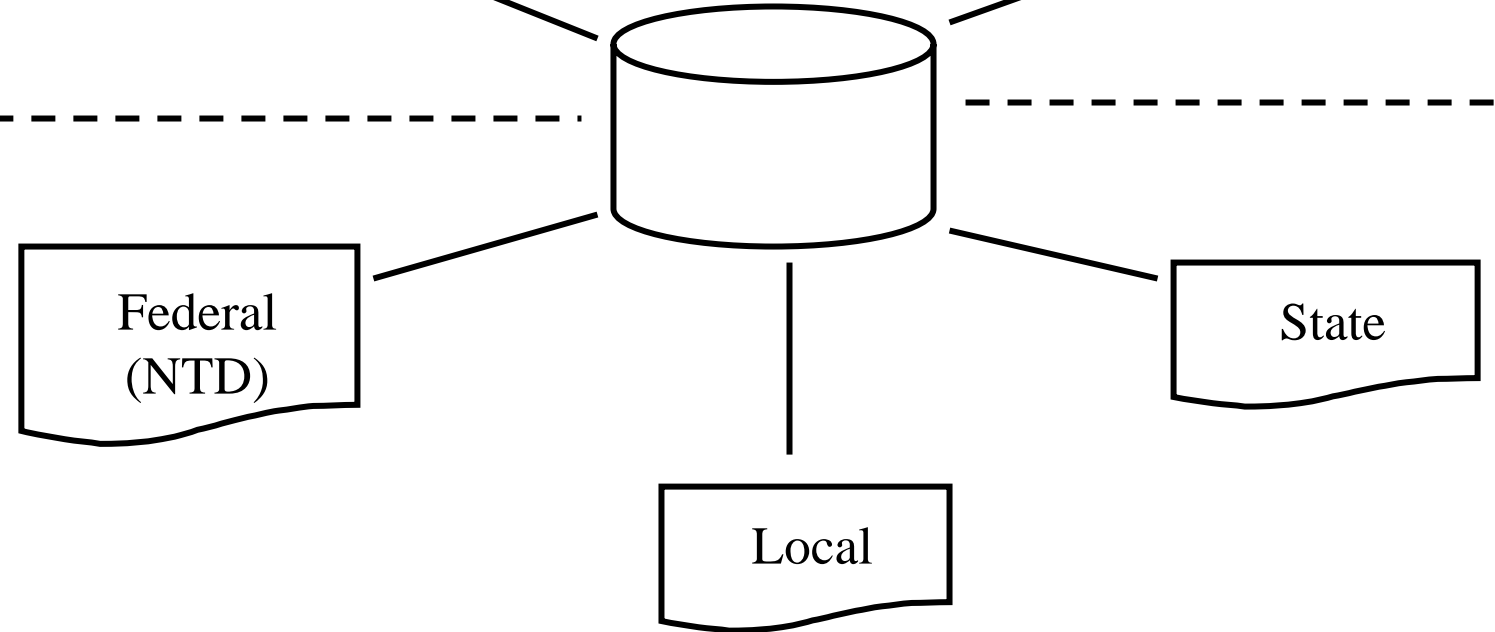


Reporting

Operational



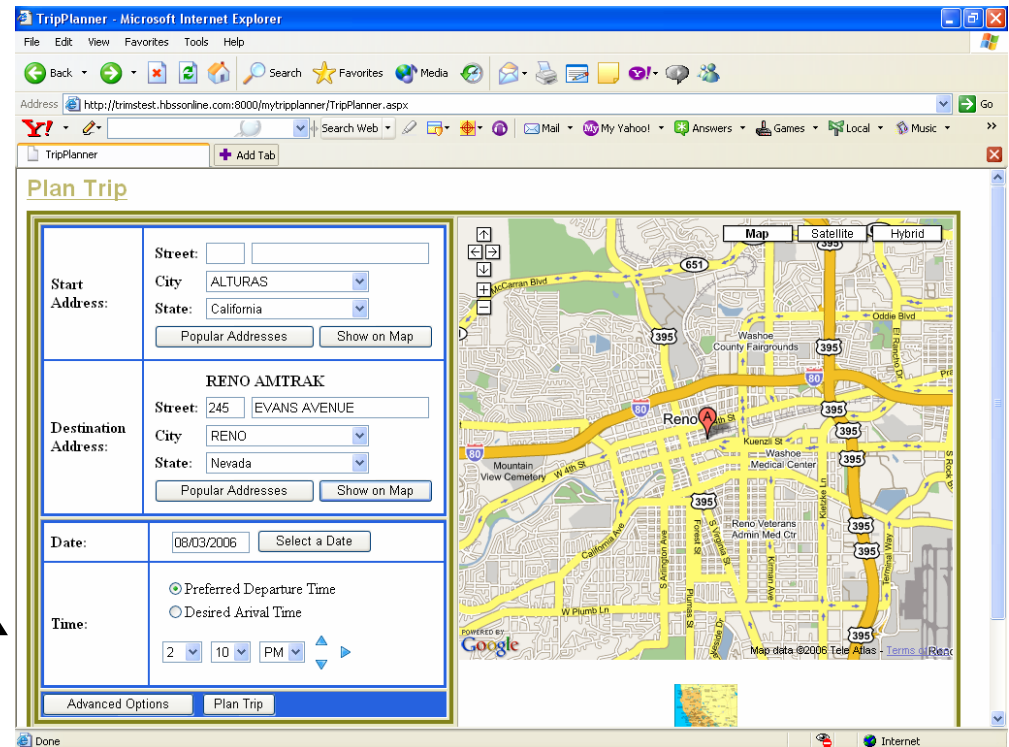
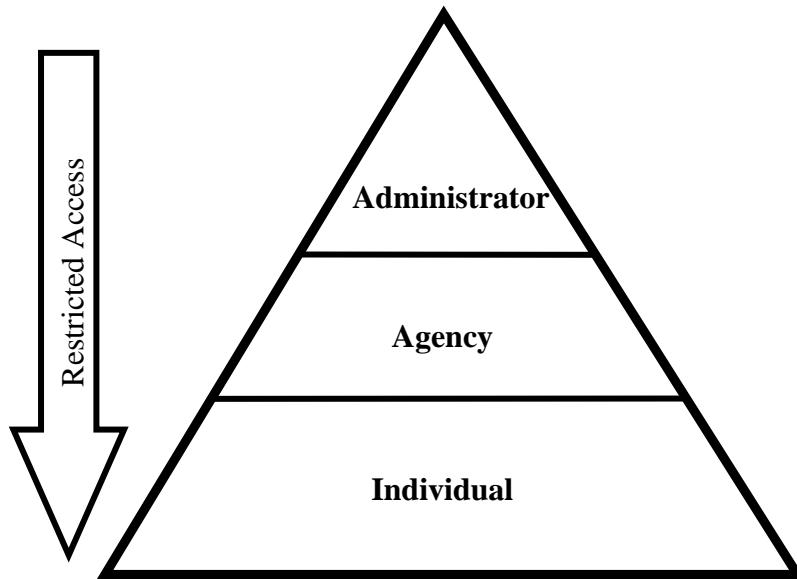
Compliance



Integrated ITS Projects

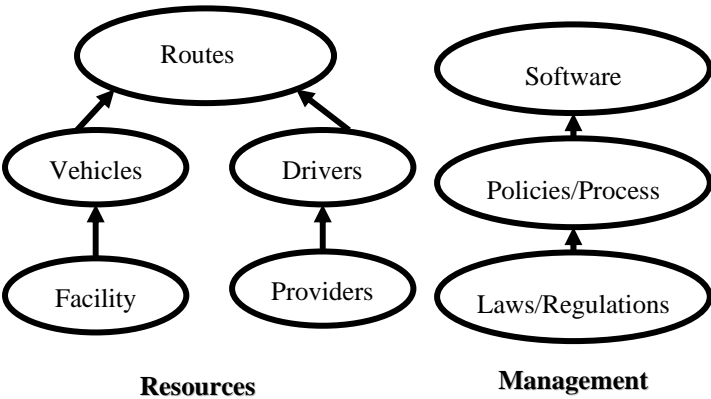
<u><i>TripPlanner</i></u> Demand	<u><i>SSTI + AVL + EHST-1</i></u> Accounting
<u><i>OpsMgmtTools</i></u> Supply	<u><i>Various + Future</i></u> Reporting

Demand – TRIMS/TripPlanner



CALnnections.com

Supply Side – TRIMS/Web

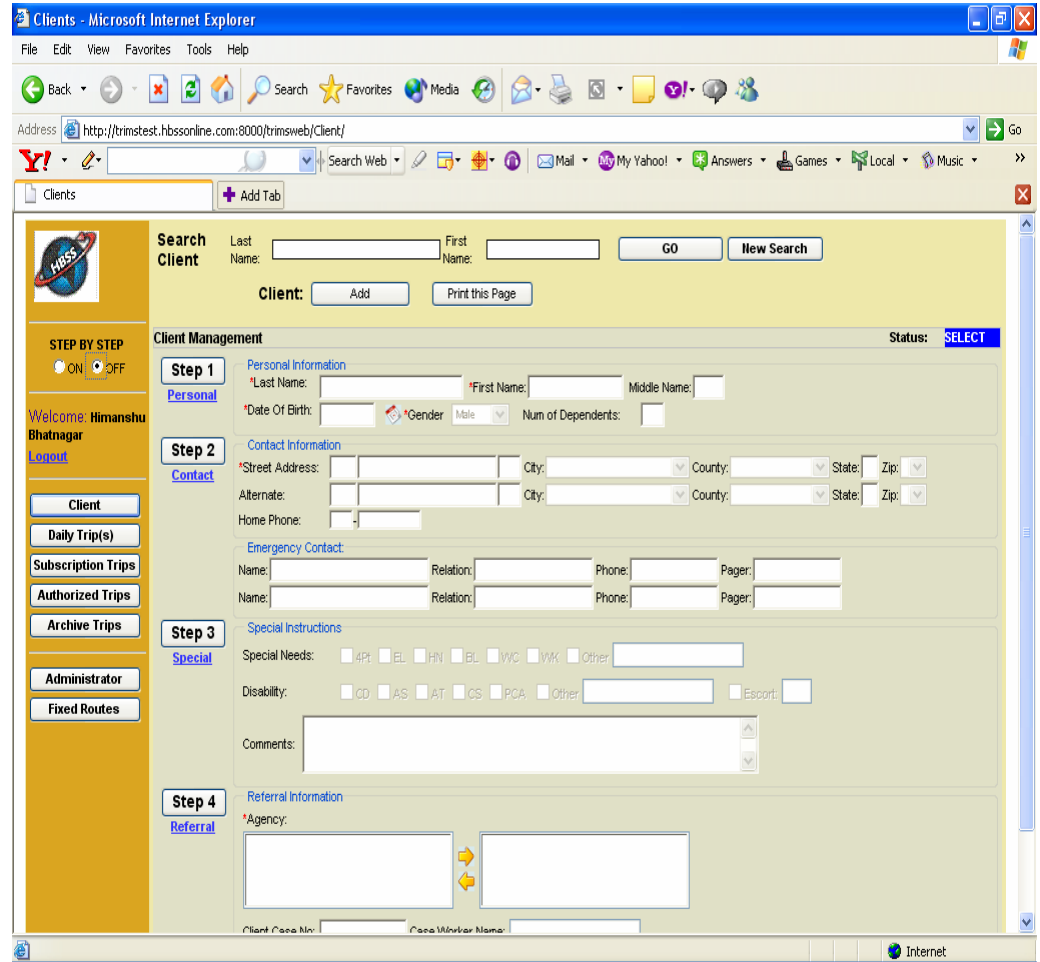


Client and Trip Management Module

Resource Management Module

Dispatching Module

Fixed Route Module



TRIMS/TripPlanner

Plan Trip

Start Address:
Street:
City: ALTURAS
State: California
Popular Addresses Show on Map

Destination Address:
RENO AMTRAK
Street: 245 EVANS AVENUE
City: RENO
State: Nevada
Popular Addresses Show on Map

Date: 08/03/2006 Select a Date

Time:
 Preferred Departure Time
 Desired Arrival Time
2:10 PM

Advanced Options Plan Trip

- Web-based system
- Uses street address or Popular Place name
- Remembers previous few trips taken
- User may select data, trip-start time or appt.-arrival time
- Shows destination on detailed map
- User may specify disability need or type (i.e. wheelchair or blind)
- User may define specific parameters

TRIMS/TripPlanner Itinerary

TripPlanner>Itineraries - Microsoft Internet Explorer

Address: <http://trimstest.hbssonline.com:8000/mytripplanner/TripPlanner.aspx>

DispMsg: TP-M-0020 No service is provided at 02:15 AM or on Thursday for this trip, but you can do the trip if you travel at 07:00 AM on Friday.

Itinerary# 1

Time	Provider	Route	Mode	Start - Origin	Time	Stop - Destination	Travel Time	Cost
			Self-Walk	,ALTURAS, CA		449 N. MAIN ST.,ALTURAS,CA		
0700A	Sage Stage	ALTURAS-REDDING	Board Route	449 N. MAIN ST.,ALTURAS,CA	1016A	1530 YUBA ST.,REDDING,CA		\$22.00
1100A	RABA	RABA ROUTE 2	Transfer	1530 YUBA ST.,REDDING,CA	1104A	3333 S. MARKET,REDDING,CA		\$0.00
TravelTime Travel time:4 hour(s) and 4 minute(s)Total cost: \$22.00								

Itinerary# 2

Time	Provider	Route	Mode	Start - Origin	Time	Stop - Destination	Travel Time	Cost
			Self-Walk	,ALTURAS, CA		449 N. MAIN ST.,ALTURAS,CA		
0700A	Sage Stage	ALTURAS-REDDING	Board Route	449 N. MAIN ST.,ALTURAS,CA	1016A	1530 YUBA ST.,REDDING,CA		\$22.00
1030A	RABA	RABA ROUTE 2	Transfer	1530 YUBA ST.,REDDING,CA	1034A	3333 S. MARKET,REDDING,CA		\$0.00
TravelTime Travel time:3 hour(s) and 34 minute(s)Total cost: \$22.00								

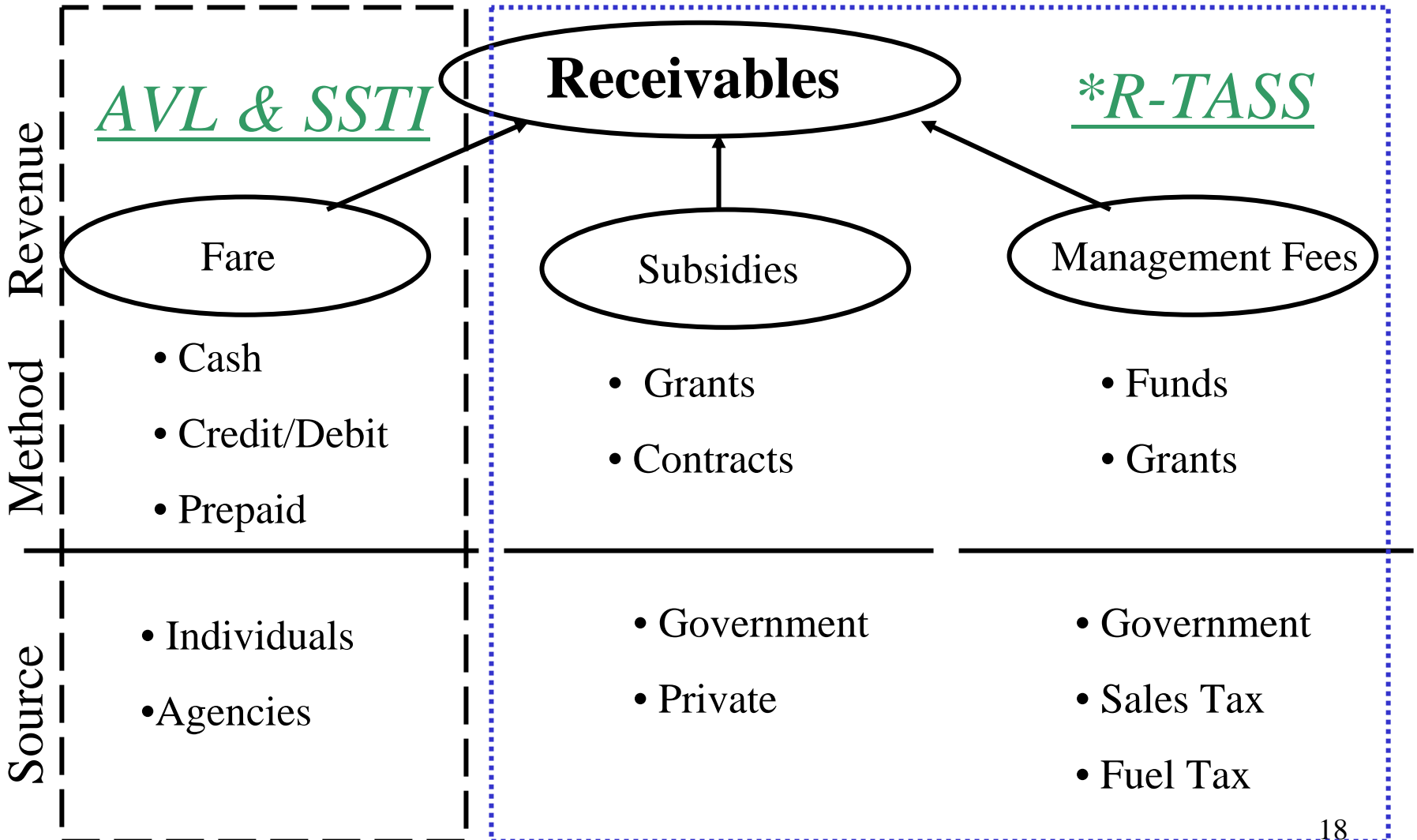
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- Indicates “walk,” if required
- If destination can be accessed only via a special DR ride, auto-connects to DR trip booking screen
- Highlights “transfer point,” if necessary
- Suggests “alternates” when specific choice is not available
- System shows “route” on a map
- Provides and ranks “alternate routes” by route quality

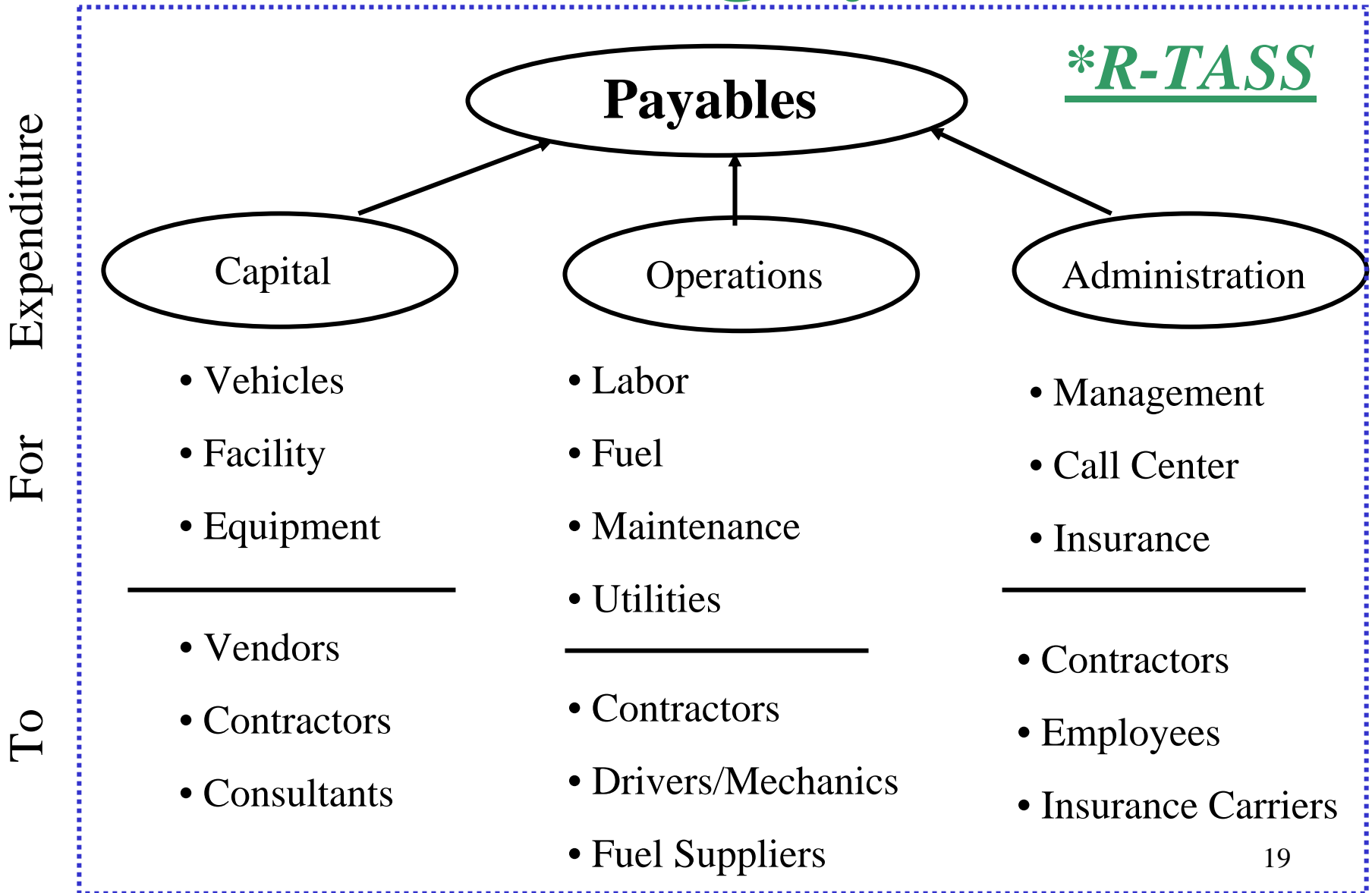
TRIMS/Web Highlights

- **Route and Rate Entry Program – accessible to all transportation providers registered with CALnections.com**
- **Routes can be “fixed route” or “demand response” either for single trip or recurring trips**
- **Trips across county/state boundaries can be planned using all registered transportation providers**
- **Trips with origins and/or destinations requiring “demand response” trip may be requested and “booked” as Special Trip**
- **Includes “resource” management (drivers, vehicles, etc.)**
- **Allows different “levels of information” based on “user access”**
- **Links costing and billing functions to standard accounting packages**
- **Additional modules available for Smart Cards, AVL/MDTs, vehicle-to - vehicle interaction**

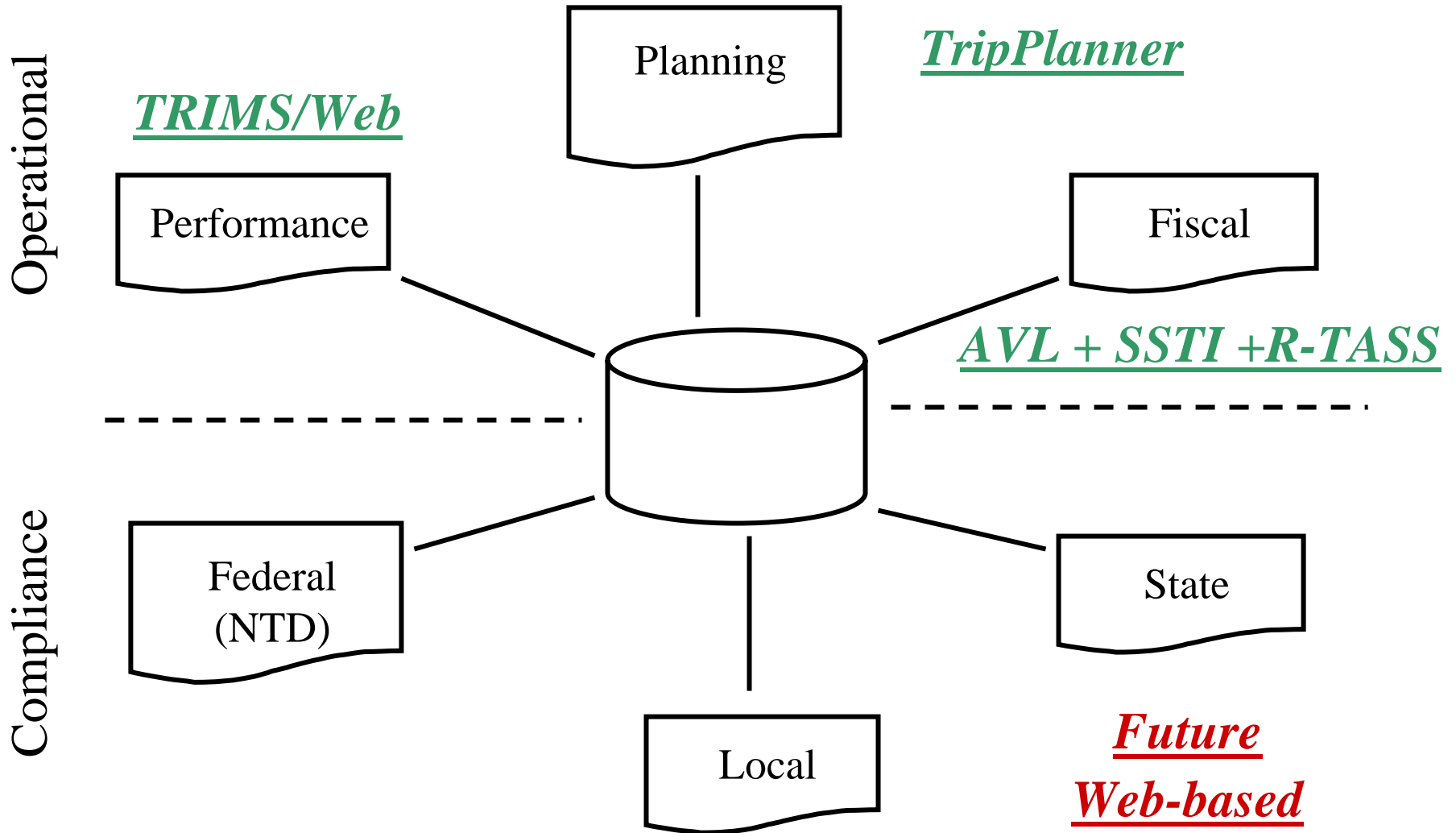
Accounting System



Accounting System



Reporting – Ongoing!!



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Questions?