Pilot Training Requirements (Interim Initial Metrics)

March 8th, 2016
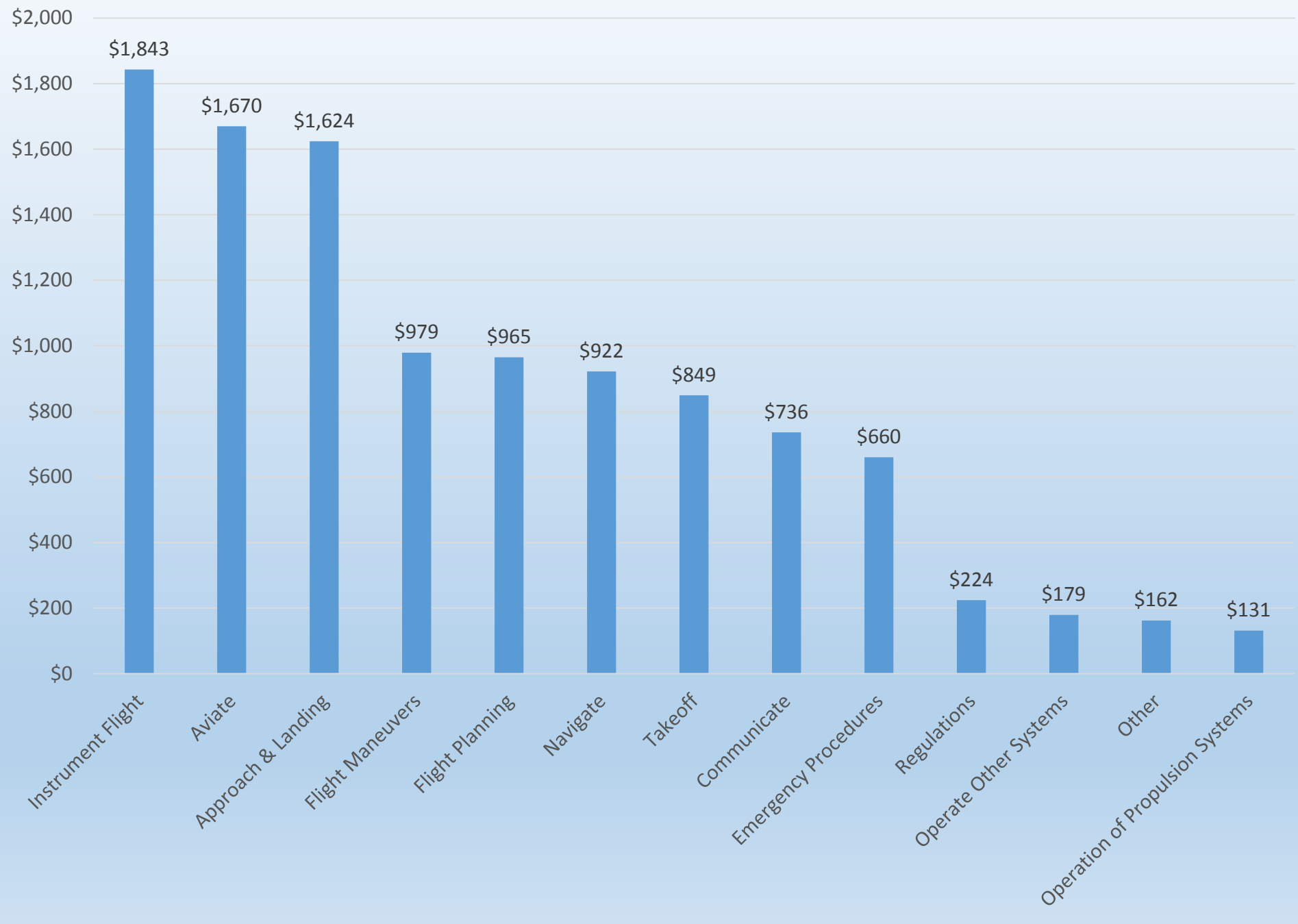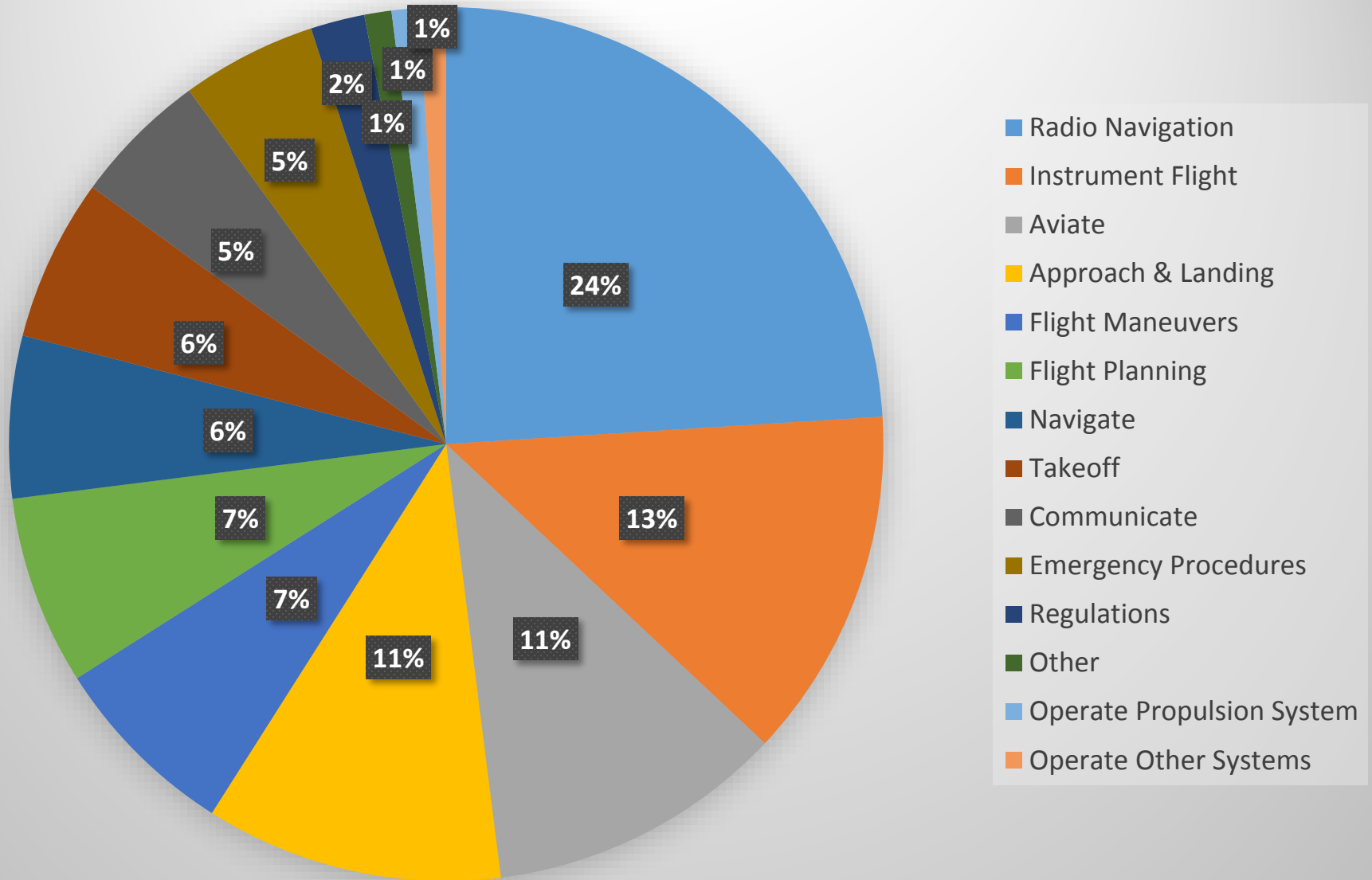
Arlington, VA

Pilot Training Requirements

- Scope of Project
- Expected Outcomes
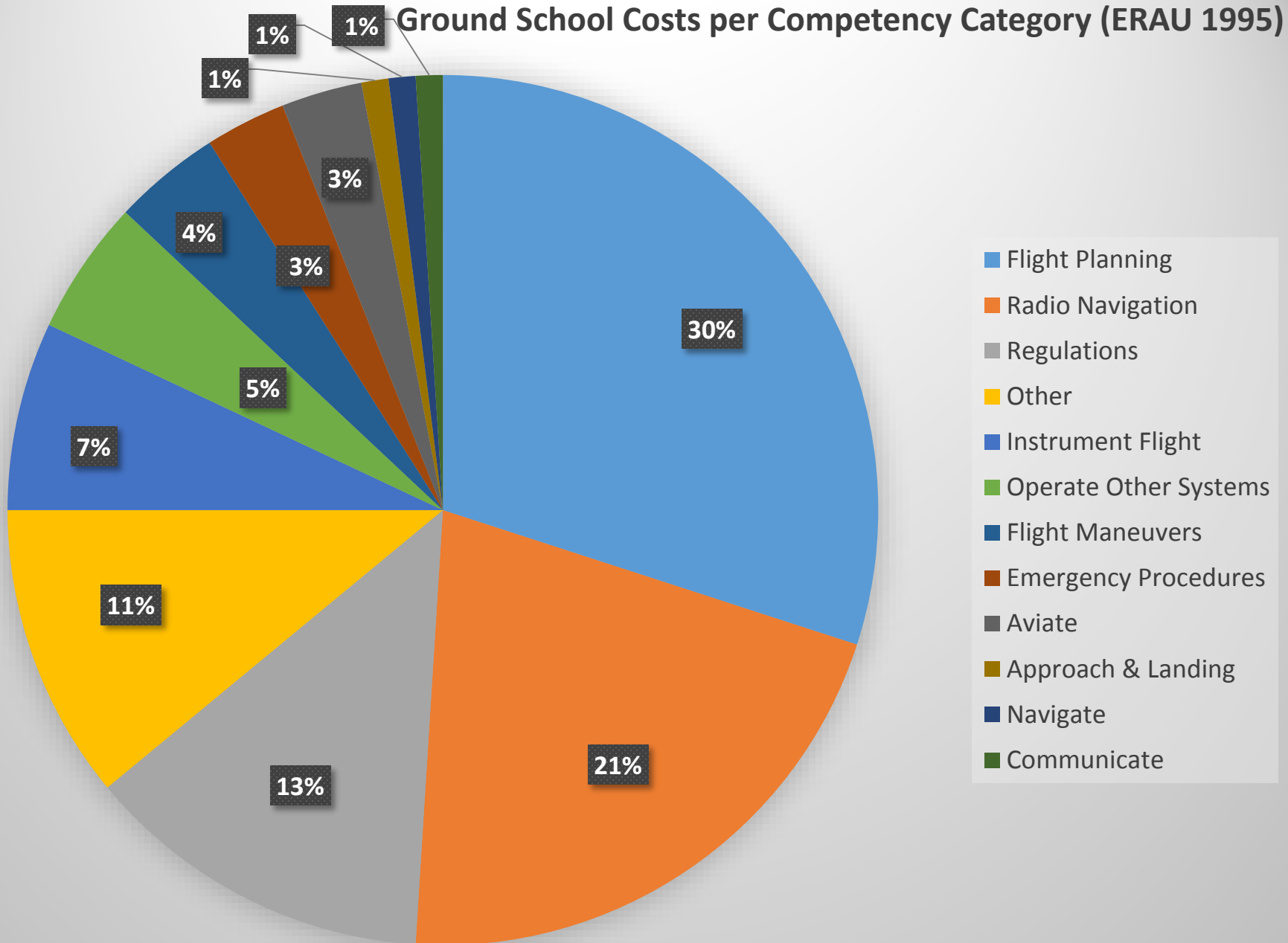- Timeline
- Some Early Observations

Total Flight Training Costs for Each Competency Area (1995)

Flight Costs per Competency Category (ERAU 1995)

Legend:
- Radio Navigation
- Instrument Flight
- Aviate
- Approach & Landing
- Flight Maneuvers
- Flight Planning
- Navigate
- Takeoff
- Communicate
- Emergency Procedures
- Regulations
- Other
- Operate Propulsion System
- Operate Other Systems

Values shown on chart: 24%, 13%, 11%, 11%, 7%, 7%, 6%, 6%, 5%, 5%, 2%, 1%, 1%, 1%

Ground School Costs per Competency Category (ERAU 1995)

- Flight Planning — 30%
- Radio Navigation — 21%
- Regulations — 13%
- Other — 11%
- Instrument Flight — 7%
- Operate Other Systems — 5%
- Flight Maneuvers — 4%
- Emergency Procedures — 3%
- Aviate — 3%
- Approach & Landing — 1%
- Navigate — 1%
- Communicate — 1%

Activity Type	Activity Subtype	Duration Brief - Debrief	Activity	# Attempts	# Incmplts	# Passed	# Failed	# Repeats	Avg Oral Time
Flight	Dual	0.0 - 0.0	2.3	366	5	361	0	1	0.9
Oral	Normal	0.0 - 0.0	2.0	385	5	380	0	9	1.4
Oral	Normal	0.0 - 0.0	2.0	413	40	373	0	3	1.6
Sim	Dual	0.0 - 0.0	1.1	402	39	363	0	6	0.2
Oral	Normal	0.0 - 0.0	2.0	473	96	376	1	21	1.6
Flight	Dual	0.0 - 0.0	2.3	415	67	347	1	6	1.0
Sim	Dual	0.0 - 0.0	1.1	370	25	342	3	12	0.3
Flight	Dual	0.0 - 0.0	2.3	377	32	334	11	12	0.8
Oral	Normal	0.0 - 0.0	2.0	393	47	345	1	9	1.6
Sim	Dual	0.0 - 0.0	1.1	456	71	353	32	68	0.2
Flight	Dual	0.0 - 0.0	2.3	466	101	325	40	50	0.7
Oral	Normal	0.0 - 0.0	1.5	334	7	327	0	8	1.1
Sim	Dual	0.0 - 0.0	1.1	413	63	329	21	35	0.2
Oral	Normal	0.0 - 0.0	2.0	376	16	359	1	41	1.5
Sim	Dual	0.0 - 0.0	1.1	702	130	469	103	304	0.3
Flight	Dual	0.0 - 0.0	2.3	580	221	320	39	67	0.7
Flight	Dual	0.0 - 0.0	2.3	626	188	323	115	150	0.6
Flight	Dual	0.0 - 0.0	2.3	600	98	328	174	230	0.6
Sim	Check Ride	0.0 - 0.0	1.1	382	4	309	69	68	0.3
Oral	Normal	0.0 - 0.0	2.0	325	5	320	0	4	1.3
Sim	Dual	0.0 - 0.0	1.1	359	20	326	13	30	0.2
Flight	Dual	0.0 - 0.0	2.3	505	72	338	95	137	0.6
Oral	Normal	0.0 - 0.0	3.0	522	180	332	10	24	1.9
Oral	Normal	0.0 - 0.0	1.5	375	26	349	0	24	1.3
Sim	Dual	0.0 - 0.0	1.1	438	59	354	25	54	0.2

Comparison of Dual and Solo Flight Times
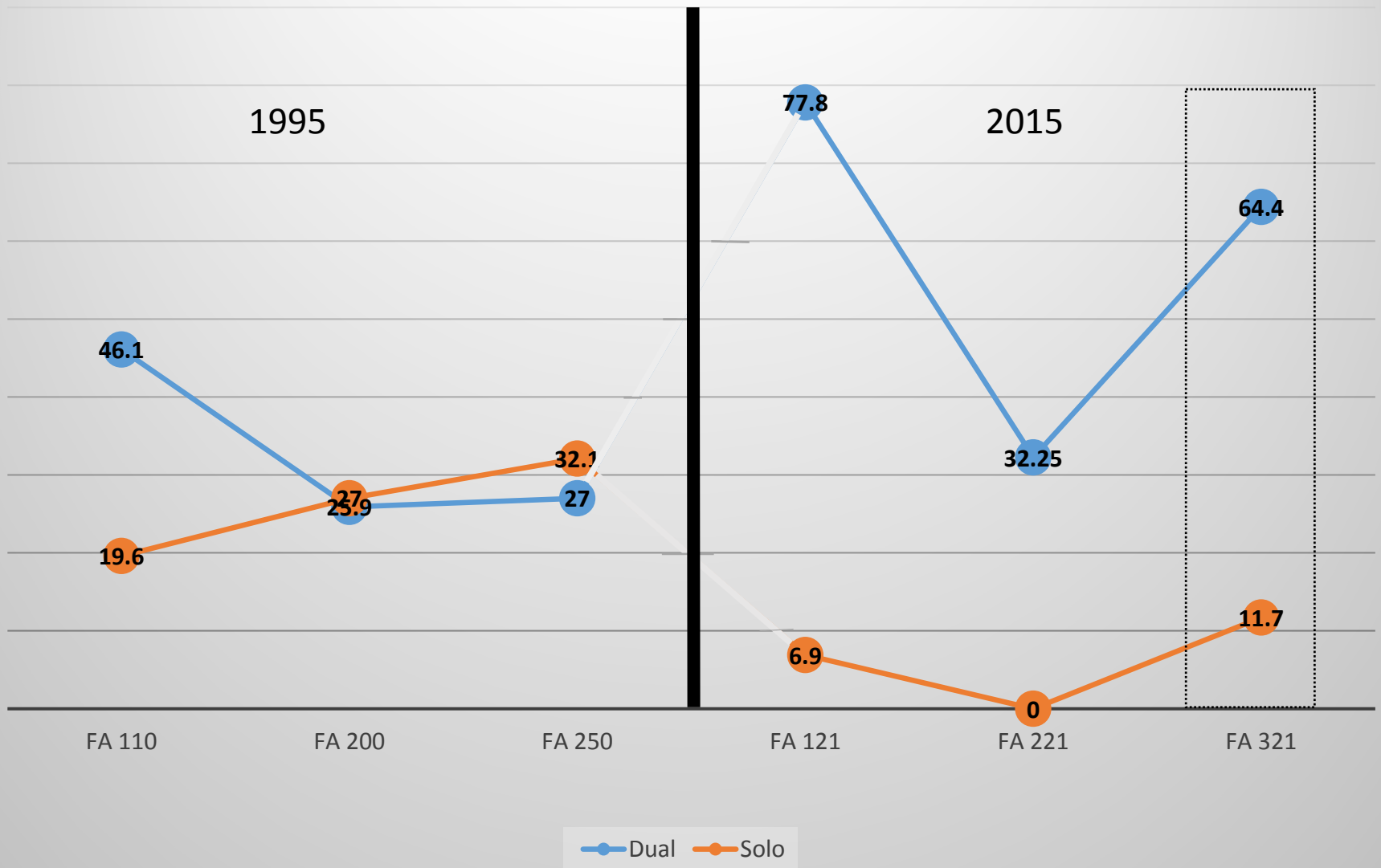
1995 vs 2015 Cost Comparison

	1995			2015		
Private	$6,224			$24,039		
Instrument		$6,892			$13,569	
Commercial			$1,417*			$20,677
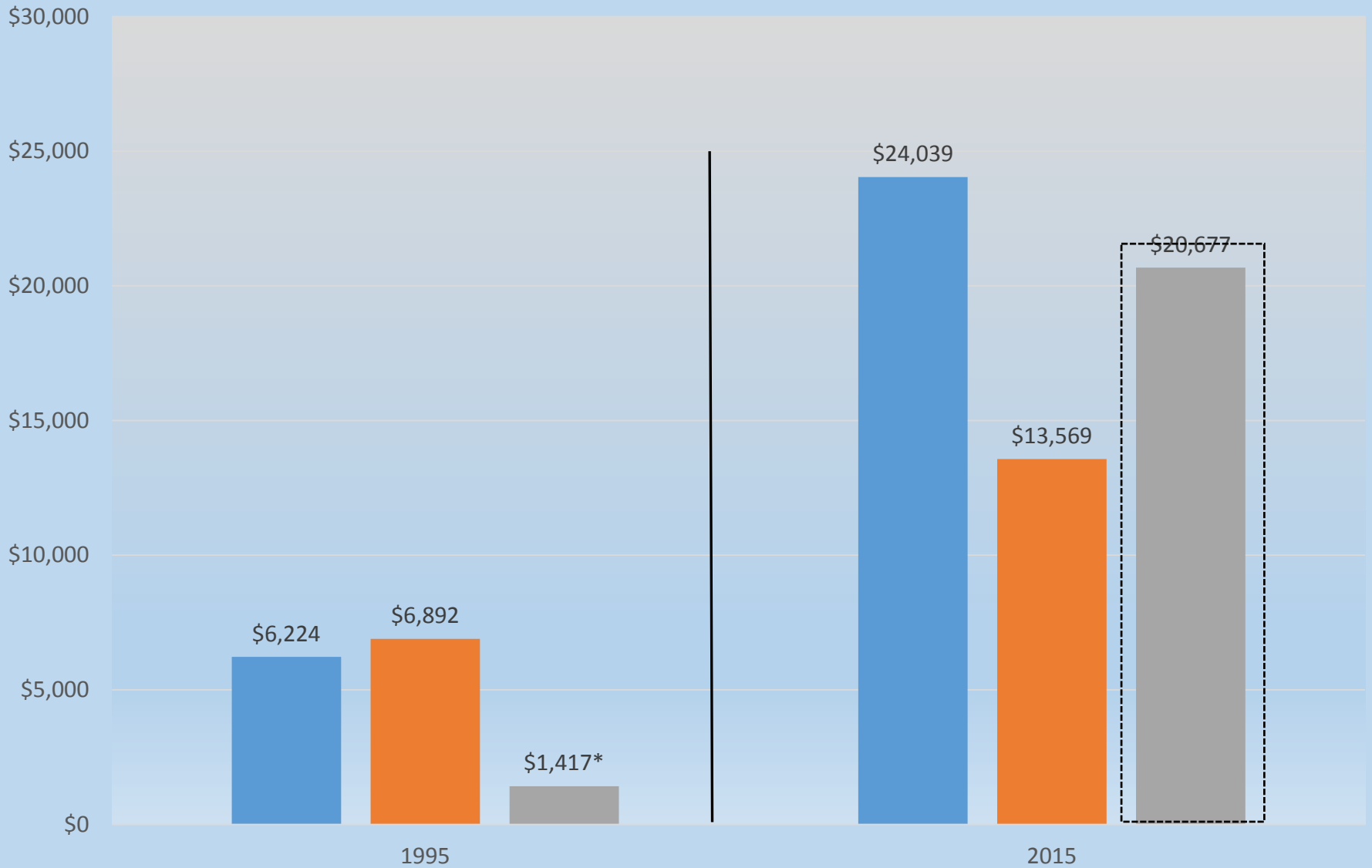
*Does not include considerable solo for time building purposes per 1995 study

■ Private ■ Instrument ■ Commercial

Total Training Time for Private Pilot by Area of Operation (2015)
(Includes, Flight, FTD & Oral in hrs.*)

- Preflight Preparation
- Preflight Procedures
- Airport Operations
- Takeoffs, Landings & Go Arounds
- Performance Maneuvers
- Navigation
- Slow Flight & Stalls
- Basic Instrumen Maneuvers
- Emergency Operations
- Night Operations
- Postflight Procedures
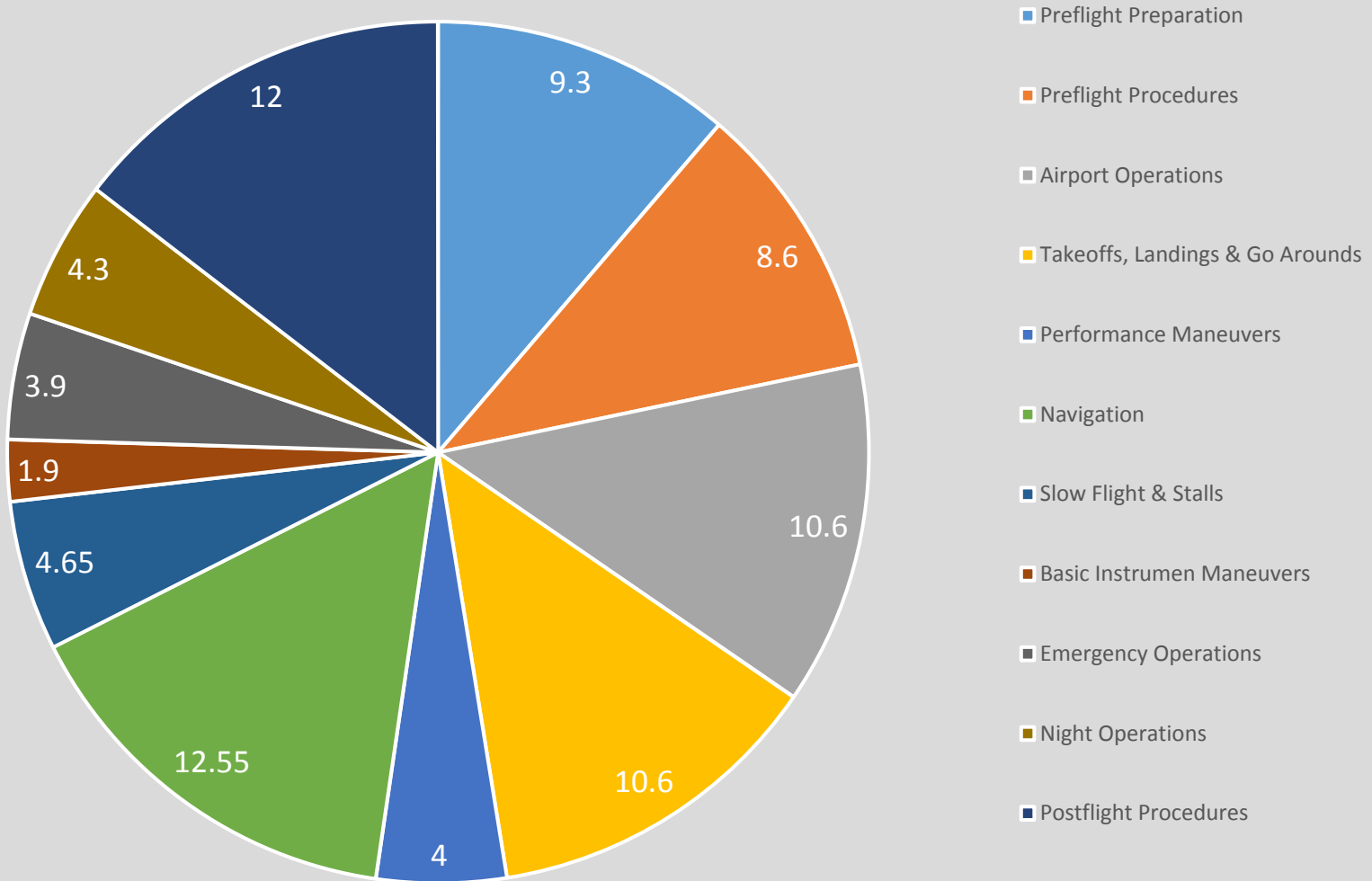
*Does not include time associated with Phase Checks 7.9 hours

Meeting Your Expectations

- Is the data useful?

- What would you like to see?

- Level of fidelity needed?