

2017 Beacon Manufacturers Workshop

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PRELIMINARY RESULTS OF 2017 BEACON MANUFACTURERS SURVEY

Andrey Zhitenev
Cospas-Sarsat Secretariat



Preliminary Results of 2017 Survey of Beacon Manufacturers

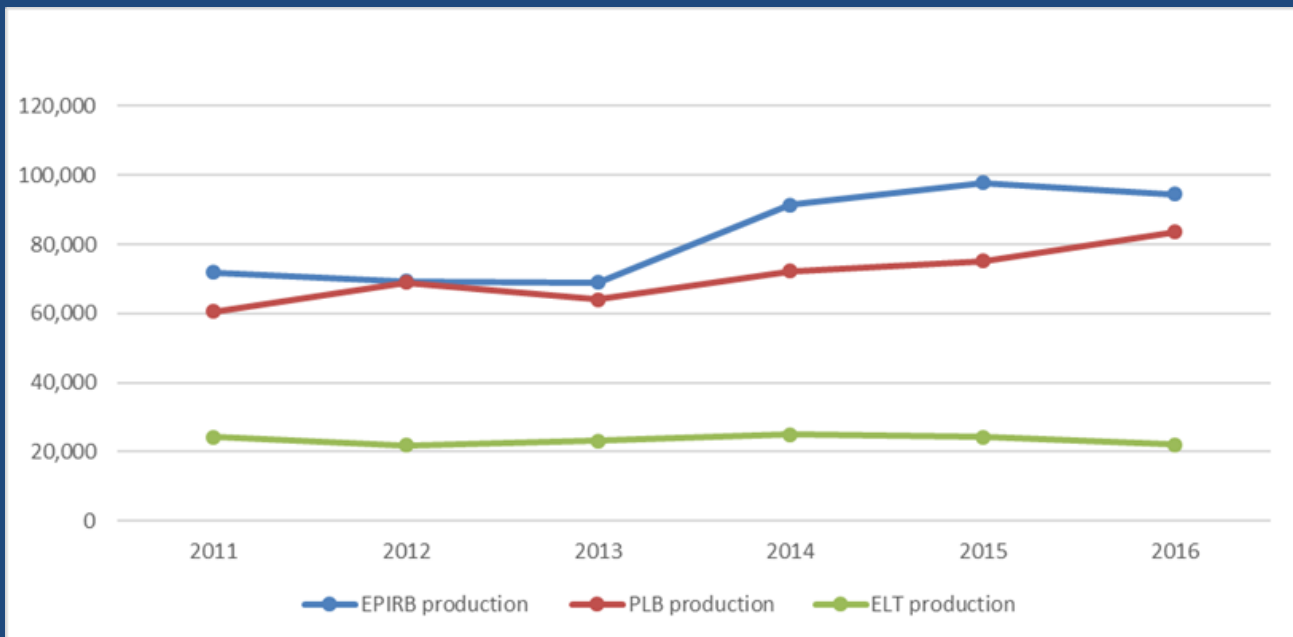
2017 Survey Highlights

- Conducted by the Cospas-Sarsat Secretariat since 1991, annually
- **45** beacon manufacturers participated in the survey
- Geographical distribution of participating manufacturers:
 - Europe: **41%**
 - USA and Canada: **28%**
 - Asia and Australia: **31%**

2017 Survey Highlights



- In 2016, about **201,500** beacons were produced worldwide, the annual production has increased by **2.3 %** over 2015



- In 2015, **197,000** beacons were produced (+ 4.5% over 2014)
- In 2014, **188,500** beacons were produced (+ 20.7% over 2013)
- In 2013, **156,000** beacons were produced (- 2.5% over 2012)
- In 2012: **160,000** beacons were produced (+ 2.2% over 2011)

Preliminary Results of 2017 Survey

~ **201,500** beacons were produced in 2016 worldwide, including :

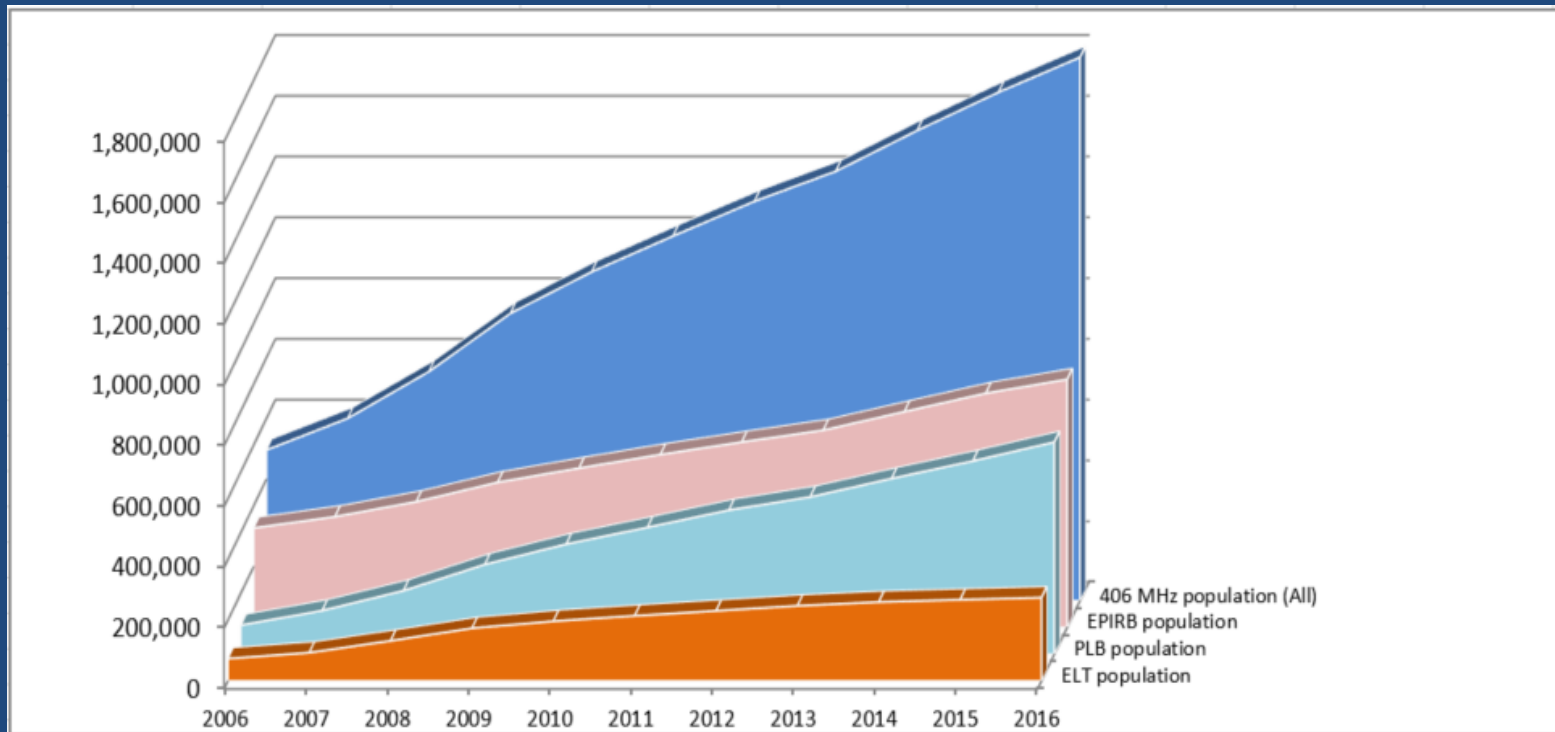
- About 96,000 **EPIRBs** (decrease of annual production: *-1.9% against 2015*)
 - *annual production growth in 2003 – 2009 and 2014-2015;*
 - *annual production decrease in 2010 (- 38%), in 2011 (-6.7%), in 2012 (-3.5%), in 2013 (-0.6% against 2012)*

- Over 22,000 **ELTs** (decrease in annual production: *-9% against 2015*)
 - *annual production growth: in 2005 (+31 %), in 2007 – 2009, in 2013 – 2014;*
 - *annual production decrease: in 2006 (-10%), 2010 (-20%), in 2011 (- 9.2%) and in 2012 (-10%), and in 2015 (-3% against 2014)*

- Over 83,000 **PLBs** (annual increase: *+ 11.4% against 2015*)
 - *annual production growth: in 2005 – 2009, in 2012, and in 2014-2016;*
 - *annual production decrease in 2010 (- 22%), in 2011 (-12.4%), in 2013 (-7.0%)*

Estimated Global Beacon Population

- **Over 1,790,000** beacons are estimated to be in use at the end of **2016**
- Annual increase in global beacon population : **~ 6.9%**



2017 Survey Highlights

- 5 manufacturers (11% of all respondents) reported ‘zero’ production in 2016,
- 16 manufacturers (36% of all respondents) produced 1 - 499 units,
- 24 manufacturers (53% of all respondents) had annual production of > 500 units.



Other 2017 Survey Results

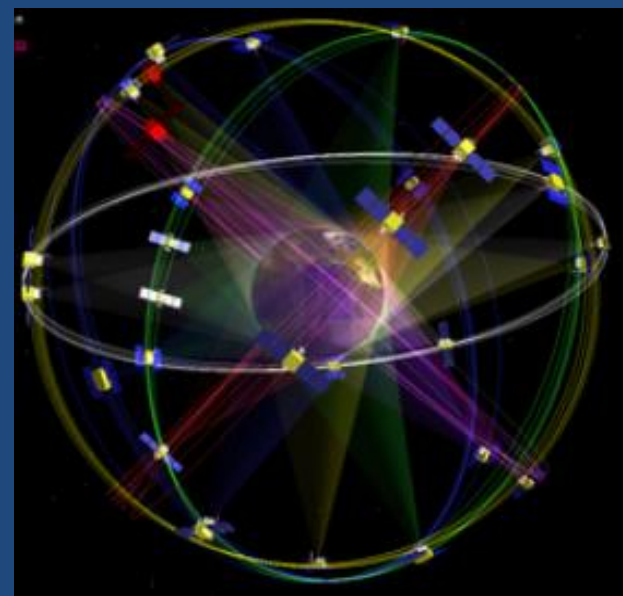
46 % of beacon manufacturers reported increase in the annual production volumes in 2016 (42% in 2015)

in 2016-17, three new beacon manufacturers informed Cospas-Sarsat of their plans to develop and type approve new models

Location Protocol Beacons

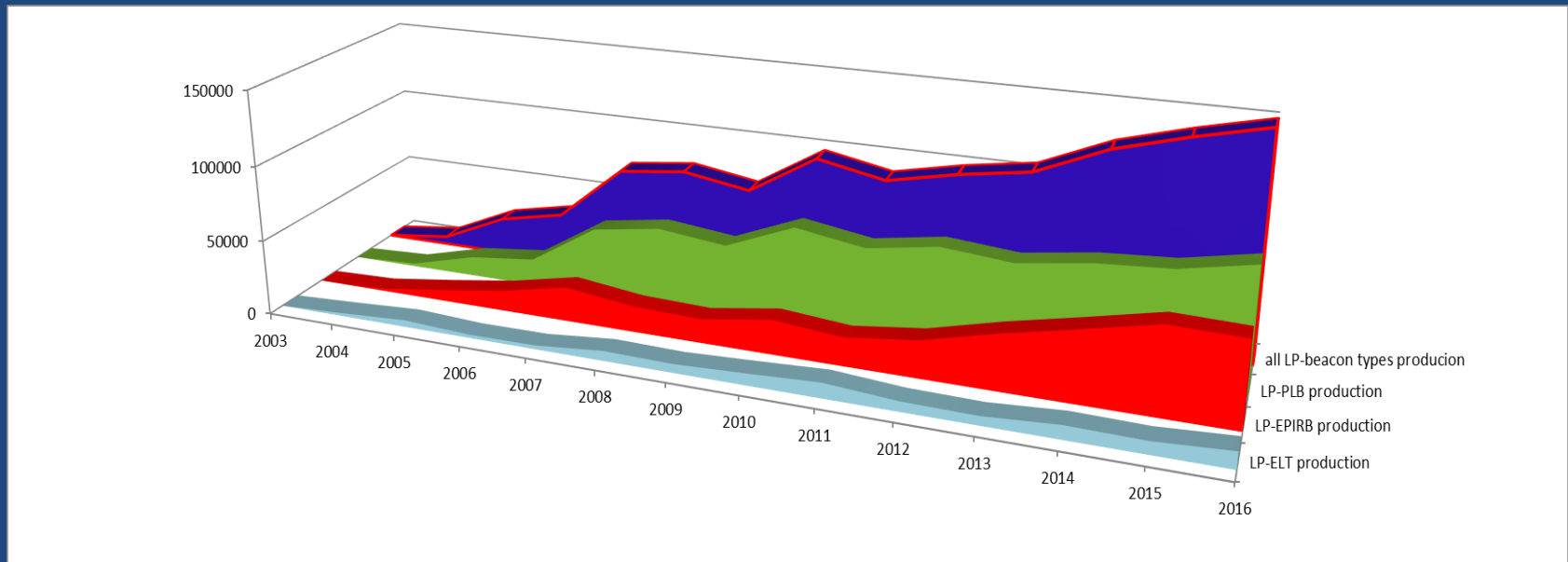
➤ in 2016, about 150,000 LP-beacons were produced, including:

- ELTs: approximately 11,000 (or 7% of LP-beacons of all types),
- EPIRBs: about 56,000 (38% of LP-beacons of all types),
- PLBs: about 82,000 (55% of LP-beacons of all types).



➤ In 2016: an estimated over 1,123,000 LP-beacons were deployed worldwide (63% of 406 MHz beacons global population).

Location Protocol Beacons Production Trends in 2004 - 2016



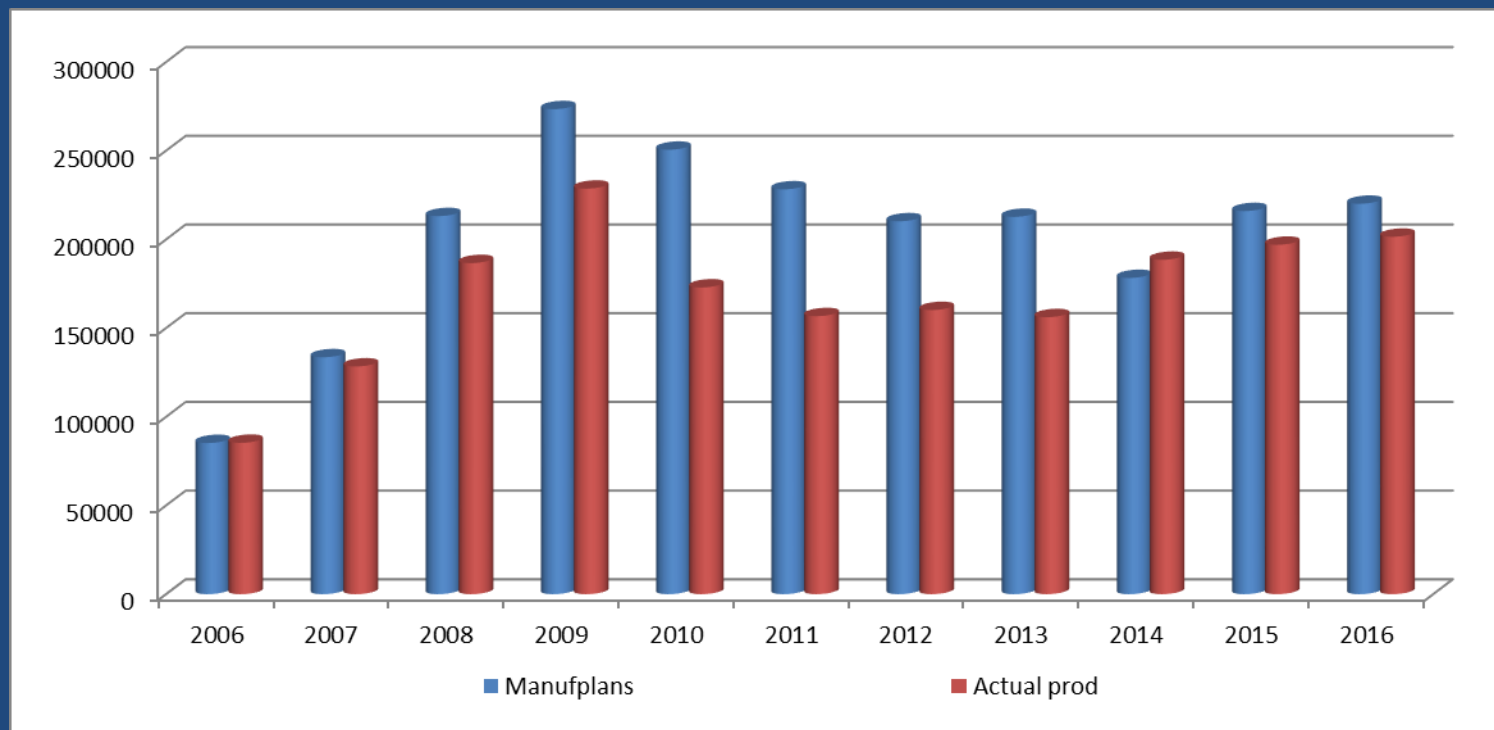
Ratio of LP-Beacons in Total Production (by beacon

	(type) % of LP-ELT	% of LP-EPIRBs	% of LP-PLBs	% of LP (all types)
2004	16.1 %	4.3%	16.3%	9.6%
2008	15.9%	22.5%	79.1%	41.3%
2012	30.4%	35.7%	97.1%	61.4%
2014	36.4%	51.3%	96.7%	66.7%
2016	50.1%	58.8%	98.7%	74.1%

Manufacturers' Plans for 2017

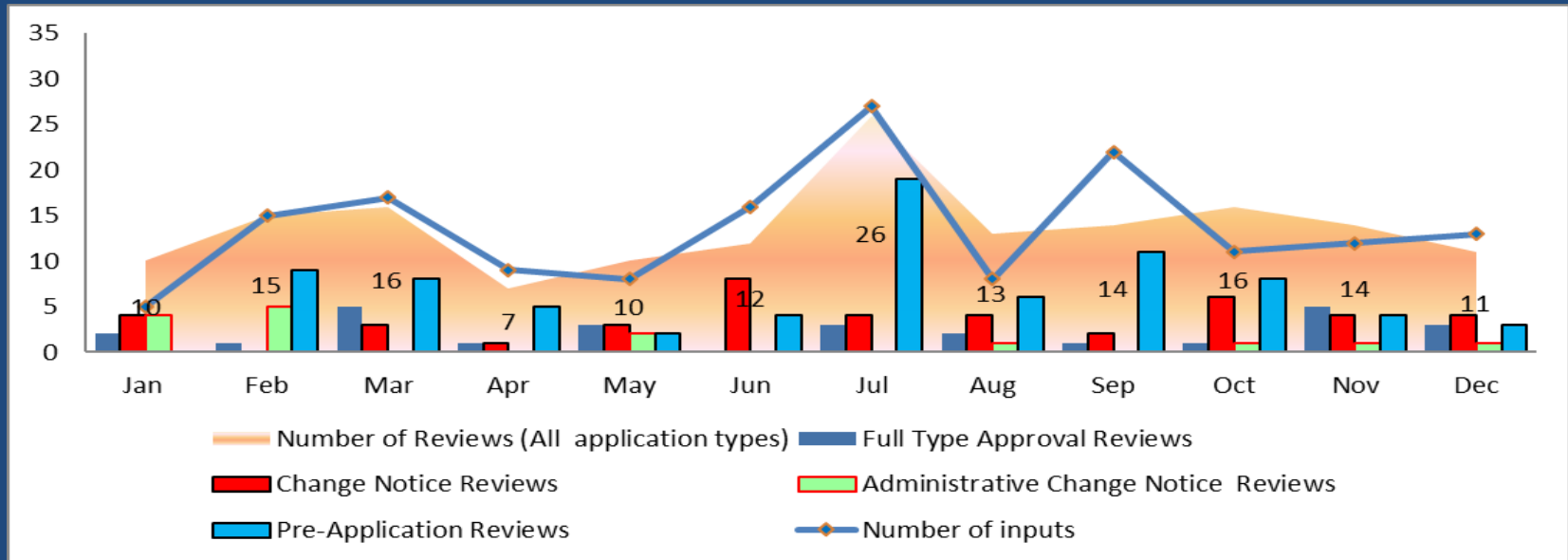
- **223,000** beacons to be produced **in 2017** (+ 11 % over actual production in 2016), including:
 - » EPIRBs: 101,000
 - » ELTs: 25,000
 - » PLBs: 97,000
- In **2017**, an estimated global population of 406 MHz beacons could reach **1,883,000** (annual growth of +5%)

Accuracy of Manufacturers Forecasts (all beacon types annual production)



Beacon type	Manufacturers' Forecast for 2016	Actual Production in 2016	Actual over Forecast Discrepancy, %
All beacon types	~219,000	~201,500	- 8%

Type Approval Activity in 2016



- In 2016, the Secretariat processed 164 type-approval submissions, including 27 Full TA reviews, 43 CHNs , 15 Administrative CHNs and 79 submissions related to Pre-application consultations
- In 2017, the Secretariat expects to receive 17 applications for type approval of new beacon models and 27 change notices from 12 beacon manufacturers

For more information...

*Cospas-Sarsat Programme
Suite 4215
1250 Rene Levesque Blvd
Montreal, Quebec H3B 4W8
Canada*

Phone: +1 514 500 7999

Fax: +1 514 500 7996

Website: www.cospas-sarsat.int

E-mail: mail@cospas-sarsat.int

Thank you !