



# Preliminary Results of the 2016 Beacon Manufacturers Survey

Beacon Manufacturers Workshop  
2016

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# 2016 Survey Highlights

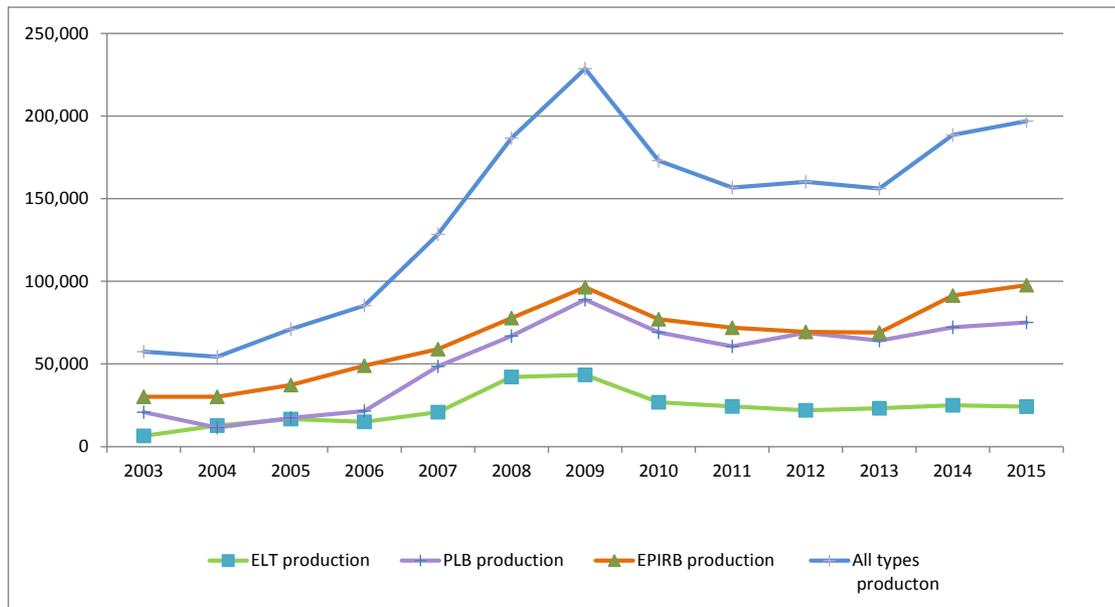


- Conducted by the Cospas-Sarsat Secretariat since 1991, annually
- **46** beacon manufacturers participated in the survey
  - Survey responses are missing from 6 manufacturers (which accounted for ~1% of 2014 beacon production)
- Geographical distribution of participating manufacturers:
  - Europe: 44%
  - USA and Canada: 30%
  - Asia and Australia: 26%

# 2016 Survey Highlights



- In 2014, about **196,968** beacons were produced worldwide, the annual production has increased by **4.5%** over 2013



- 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)
- In 2011: 156,000 beacons were produced (- 9.6% over 2010)

# Preliminary Results of 2016 Survey



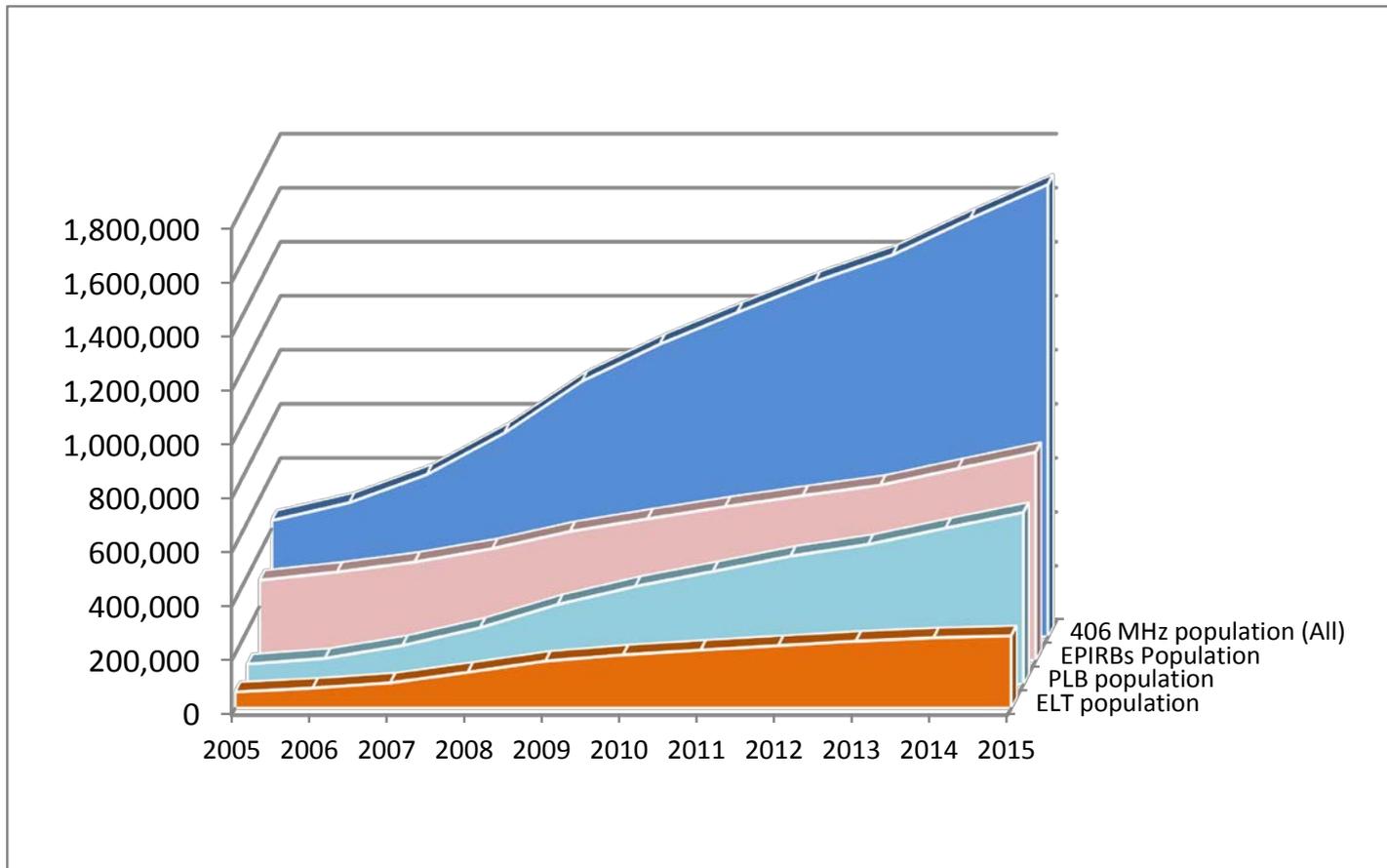
~ **188,500** beacons were produced in 2015 worldwide, including :

- Over 97,000 **EPIRBs** (increase of annual production: + 6.9% against 2014)
  - annual production growth in 2003 – 2009, and 2014 (+%);
  - annual production decrease in 2010 (- 38%), in 2011 (-6.7%), in 2012 (-3.5%) and 2013 (-0.6% against 2012)
  
- About 24,000 **ELTs** (decrease in annual production: -3.0% against 2014)
  - annual production growth: in 2005 (+31 %), in 2007 - 2009; in 2013 (+5.5%) and in 2014 (+7.8%)
  - annual production decrease: in 2006 (-10%), 2010 (-20%), in 2011 (- 9.2%) and in 2012 (-10% against 2011)
  
- Over 75,000 **PLBs** (annual increase: + 4.1% against 2014)
  - annual production growth: in 2005 – 2009, 2012, and 2014 (+12.6%)
  - annual production decrease in 2010 (- 22%), in 2011 (-12.4%), and in 2013 (-7.7%)

# Estimated Global Population



- **Over 1,673,000** beacons were in use at the end of 2015
- Annual increase in global beacon population : **~ 8.1%**



# 2016 Survey Highlights



- 6 manufacturers have not responded to the survey
- 3 manufacturers (6% of all respondents) reported 'zero' production in 2015, (in 2014: 12%, in 2013: 23%, in 2012 : 14%)
- 19 manufacturers (40% of all respondents) produced 1 - 499 units produced in 2015, (in 2014: 36%, in 2013: 27%, in 2012: 35%)
- 25 manufacturers (52%) had annual production of > 500 units, (in 2014: 47%, in 2013: 50%, in 2012: 51%)



# Other 2016 Survey Results

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47 % of beacon manufacturers reported increase in the annual production volumes in 2015 (54% in 2014)

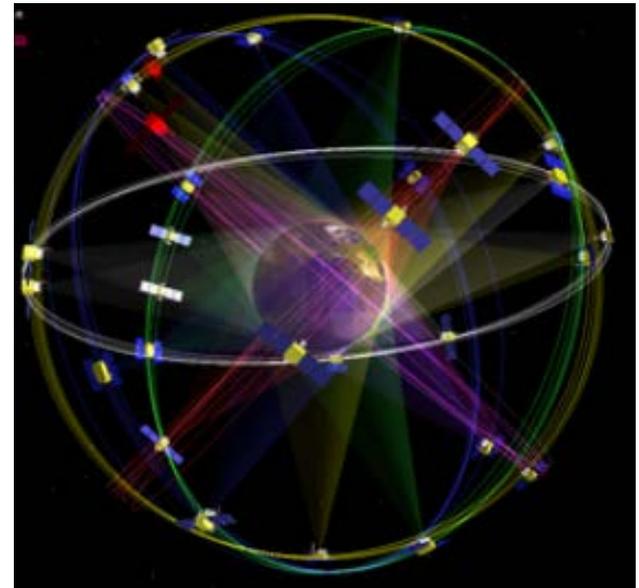
in 2015, two new beacon manufacturers informed Cospas-Sarsat of their plans to develop and type approve new models

# Location Protocol Beacons



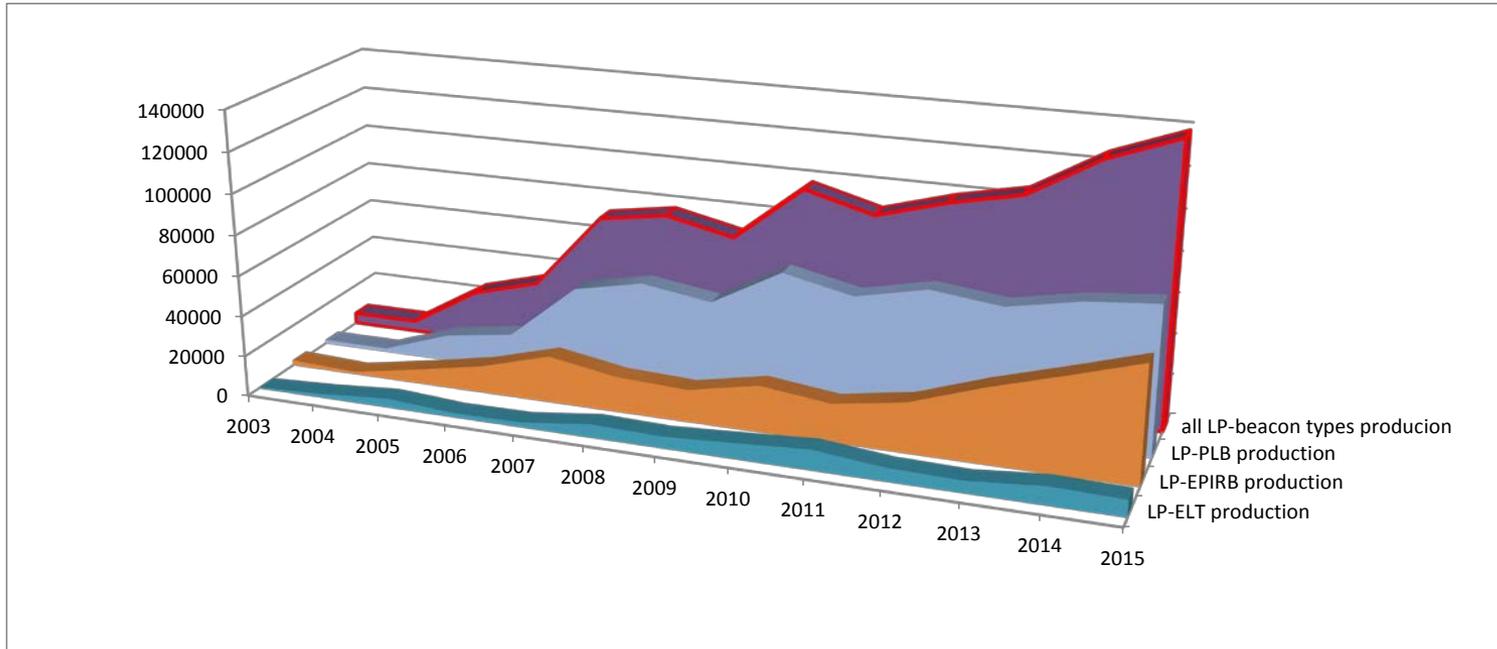
➤ in 2015, 139,000 LP-beacons were produced, including:

- ELTs: approximately 8,300 (6% of LP-beacons of all types),
- EPIRBs: about 57,600 (41.5% of LP-beacons of all types),
- PLBs: about 73,000 (52.6% of LP-beacons of all types).



➤ 2015: over 907,000 LP-beacons were deployed worldwide (54.2% of 406 MHz beacons global population).

# Location Protocol Beacons Production Trends in 2004 - 2015



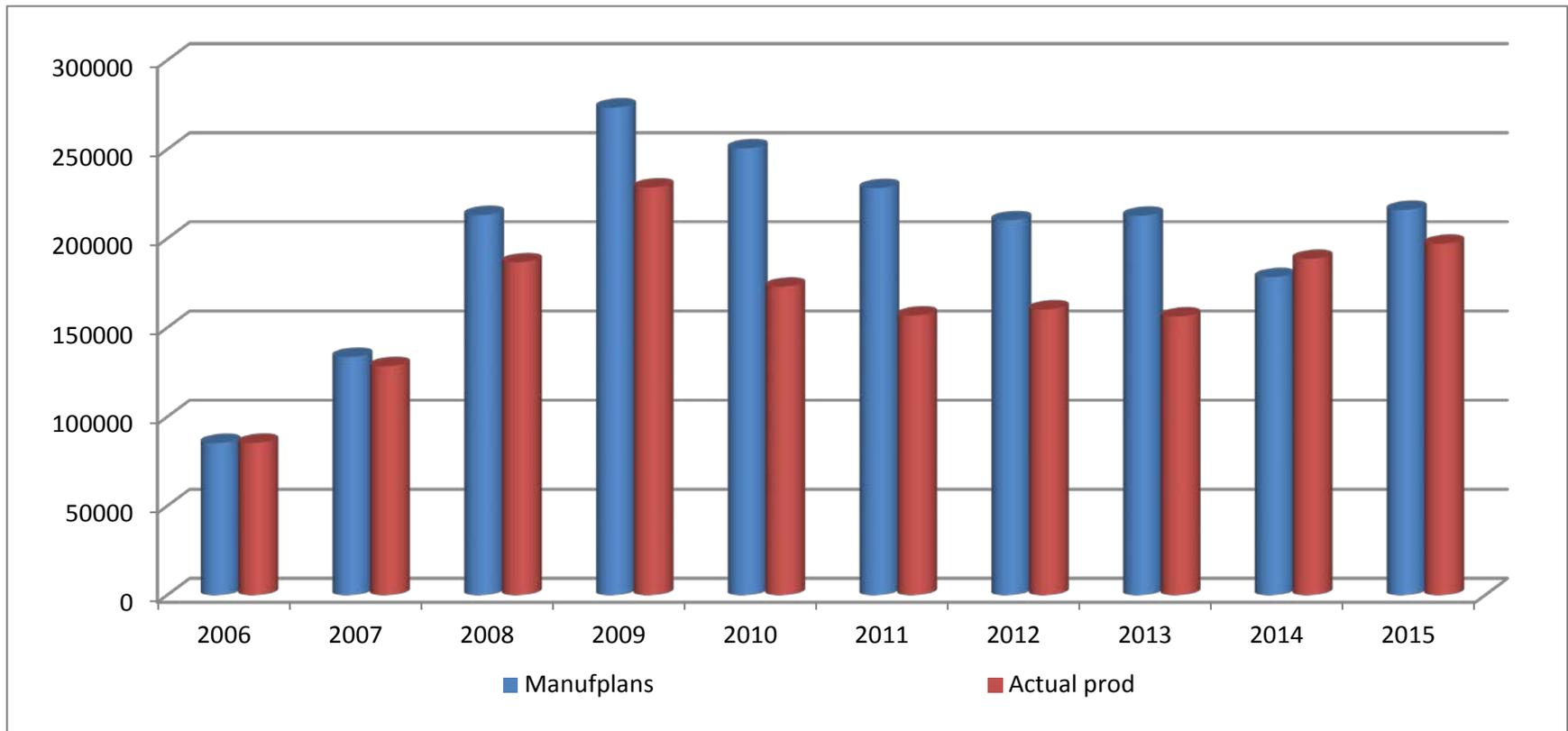
	% of LP-ELT	% of LP-EPIRBs	% of LP-PLBs	% of LP (all types)
2004	16.1 %	4.3%	16.3%	9.6%
2008	15.9%	22.5%	79.1%	41.3%
2014	36.4%	51.3%	96.7%	66.7%
2015	32.8%	55.1%	83.2%	70.5%

# Manufacturers' Plans for 2016

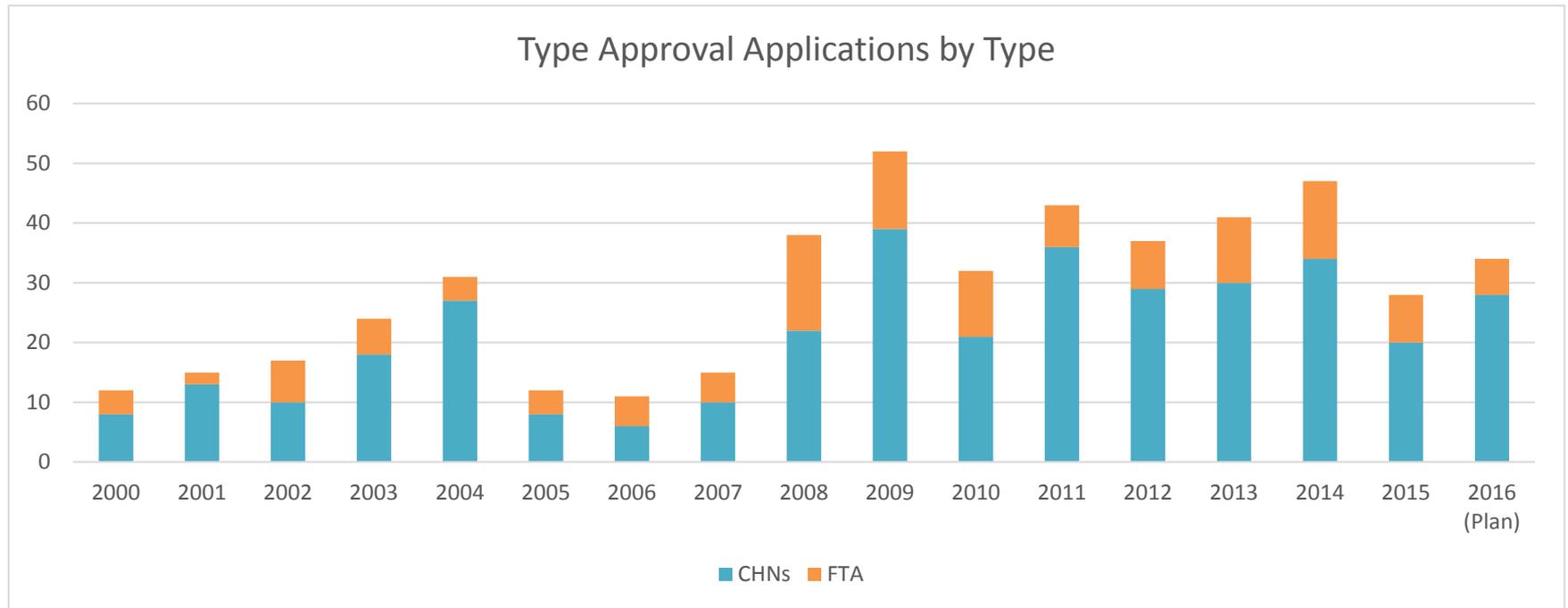


- **220,000** beacons to be produced in 2016 (+ 12% over actual production in 2015), including:
  - » EPIRBs: 106,000
  - » ELTs: 26,000
  - » PLBs: 88,000
- In 2016, global 406 MHz beacon population could reach 1,807,000 (annual growth +8.0%)

# Accuracy of Manufacturers Forecasts (all beacon types annual production)



# Type Approval Activity



In 2016, the Secretariat expects 20 applications for Type Approval of new beacon models and 15 Change Notices from 14 beacon manufacturers

# For More Information...



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