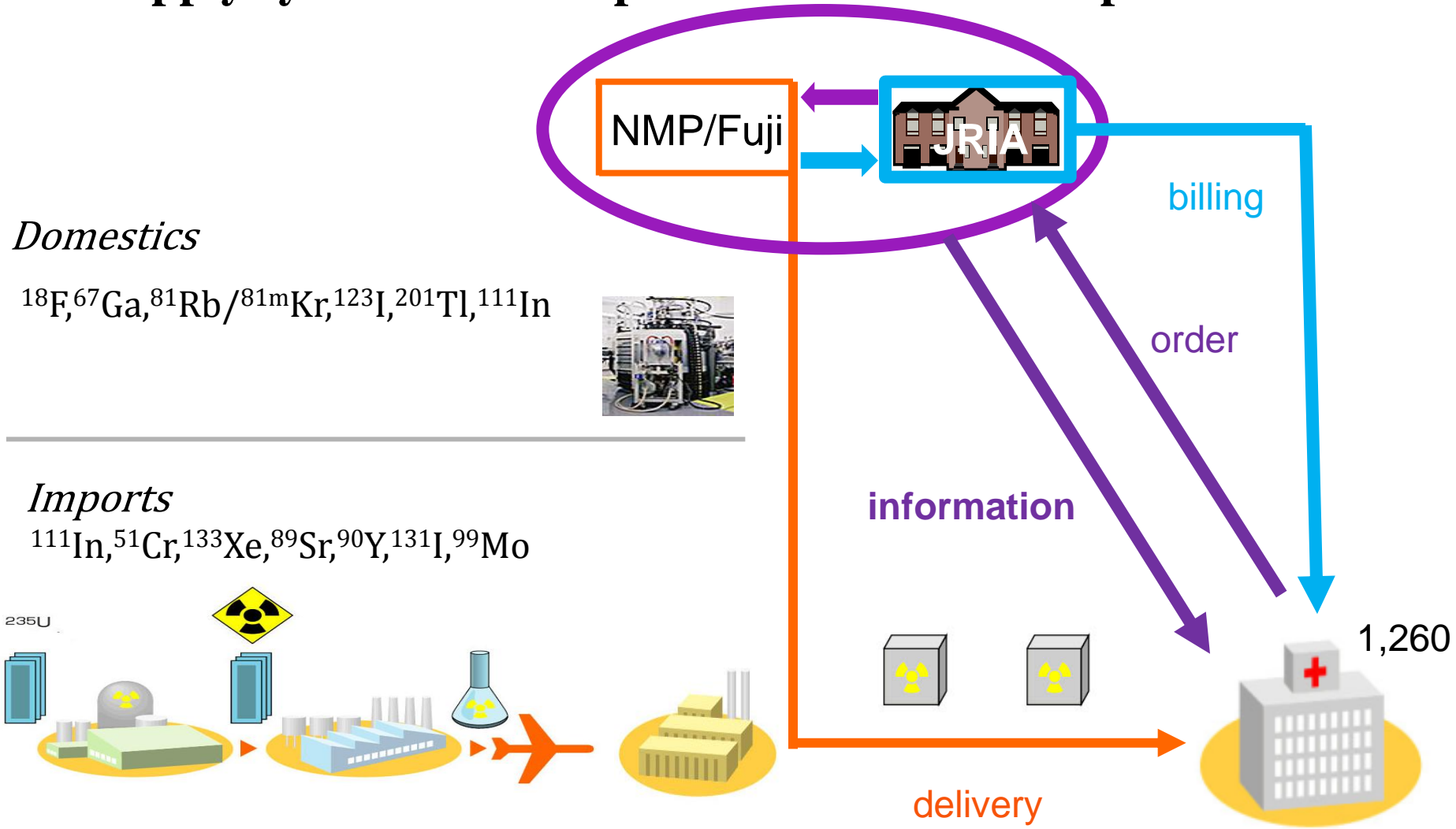




# Update on $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$ Demand and Supply in Japan

**Takashi YAMASHITA, M.D., Ph.D**  
**Executive Director**  
**Japan Radioisotope Association**

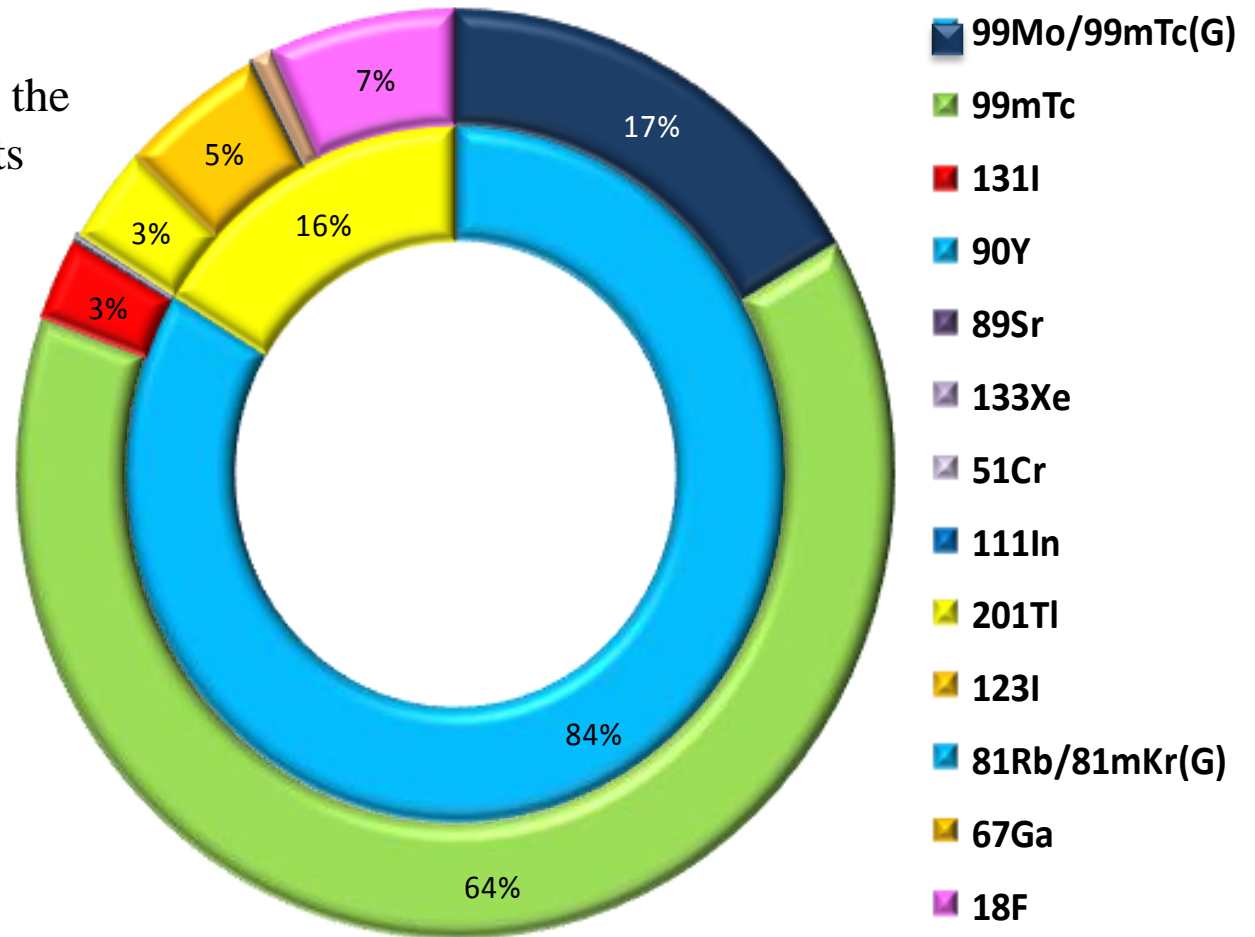
# Supply system of Radiopharmaceuticals in Japan



# Ratio of Radiopharmaceuticals supplied in 2012

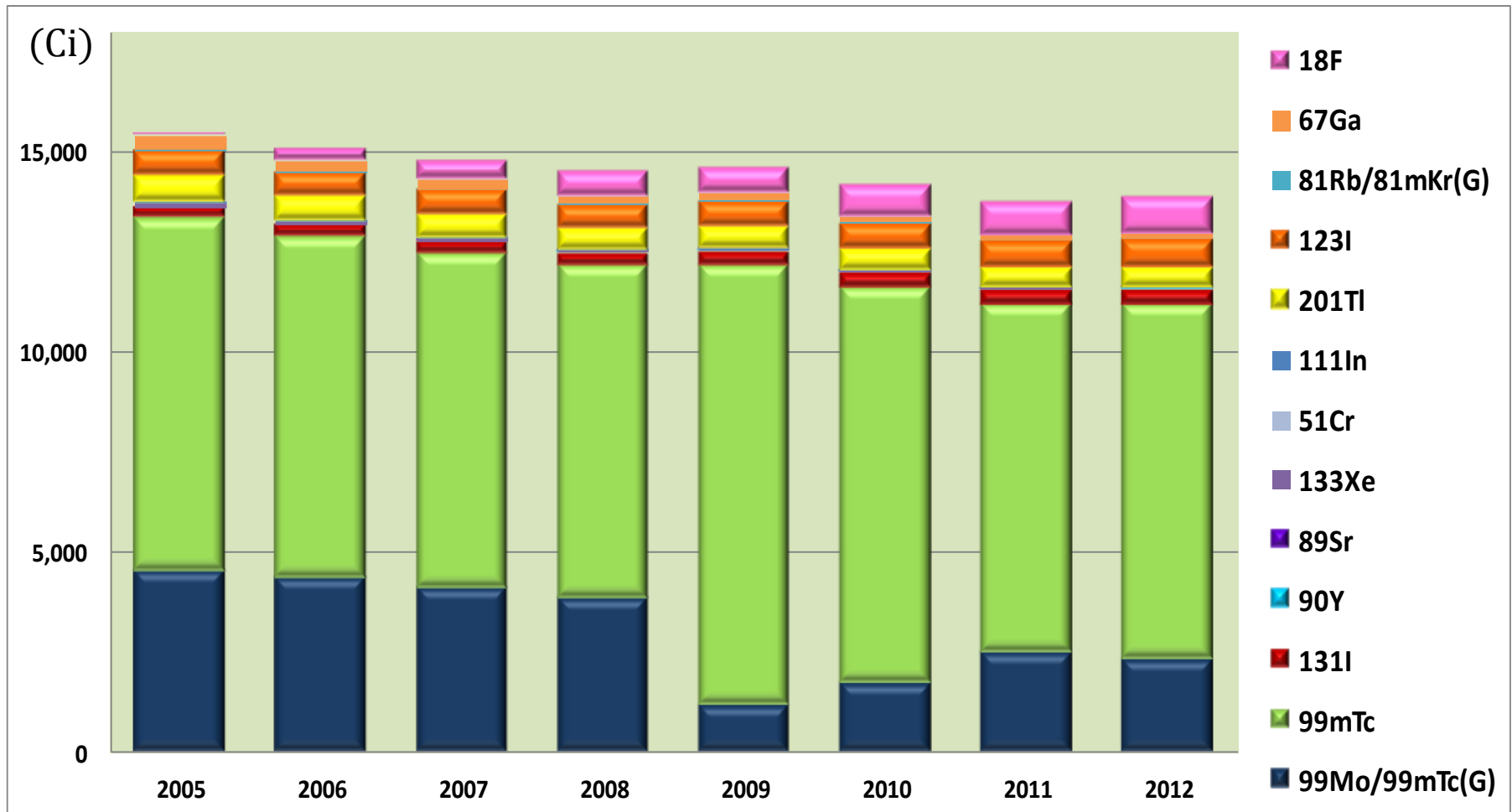
The outside circle refers to the ratio of radioactive amounts

The inside refers to  
 Domestics **16%**  
 and  
 Imports **84%**



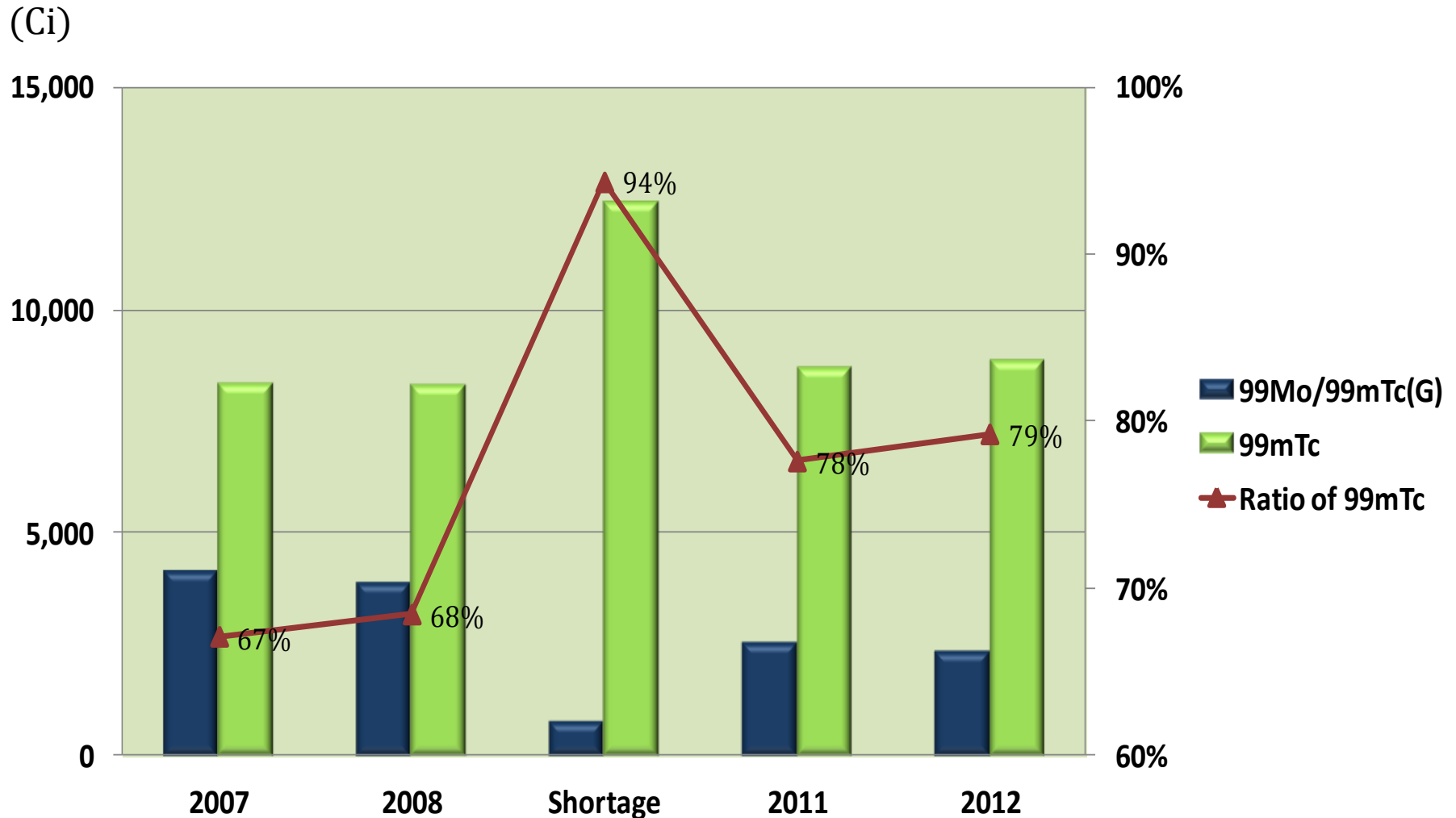
# Amounts of Radiopharmaceuticals supplied to hospitals

FY 2005-2012(estimate)



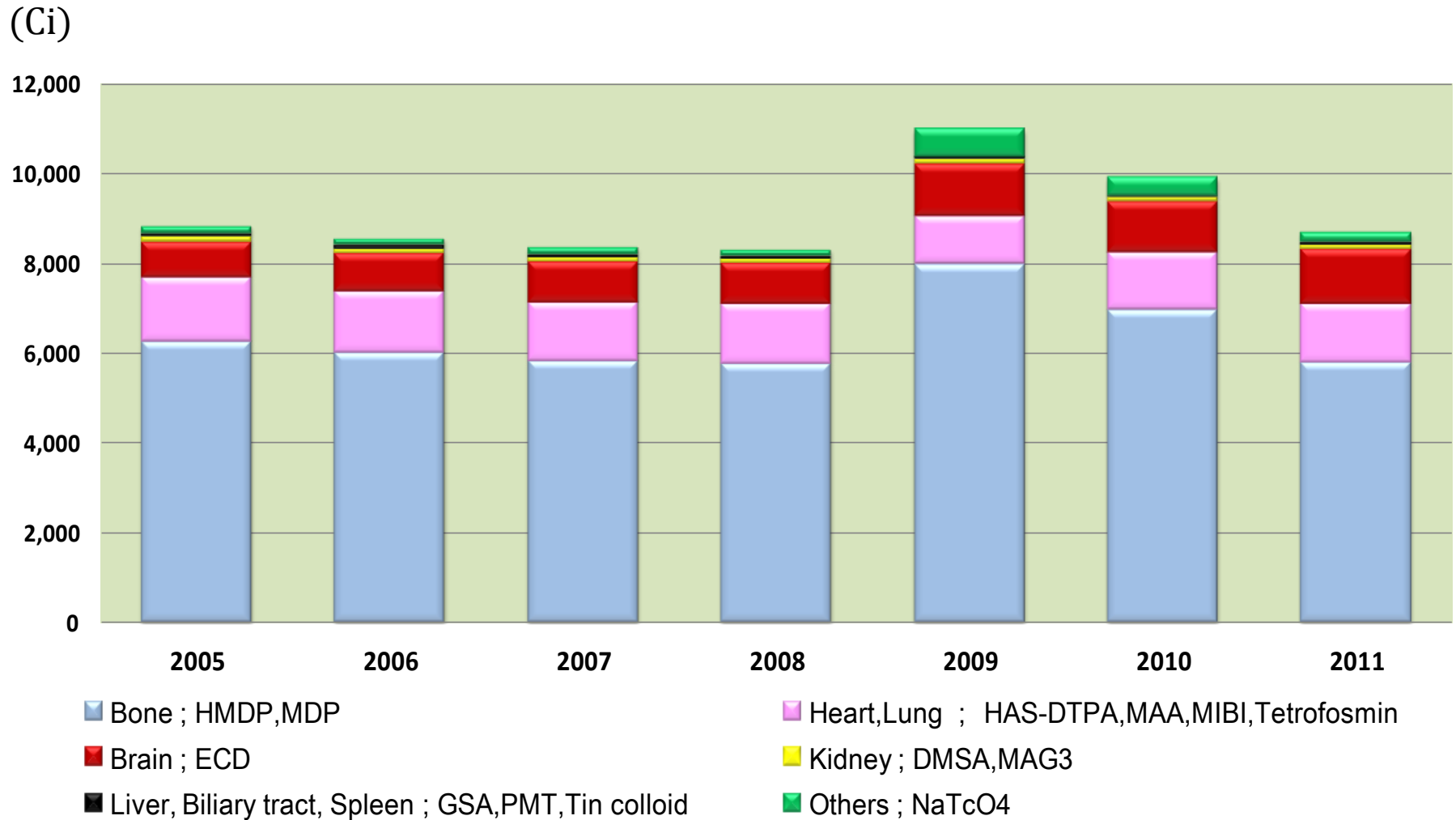
# Amounts & Ratio of $^{99}\text{Mo}/^{99\text{m}}\text{Tc}(\text{G})$ & $^{99\text{m}}\text{Tc}$ supplied to hospitals

Shortage period : (Jun.'09 – Sep.'10)  $\times$  12/16

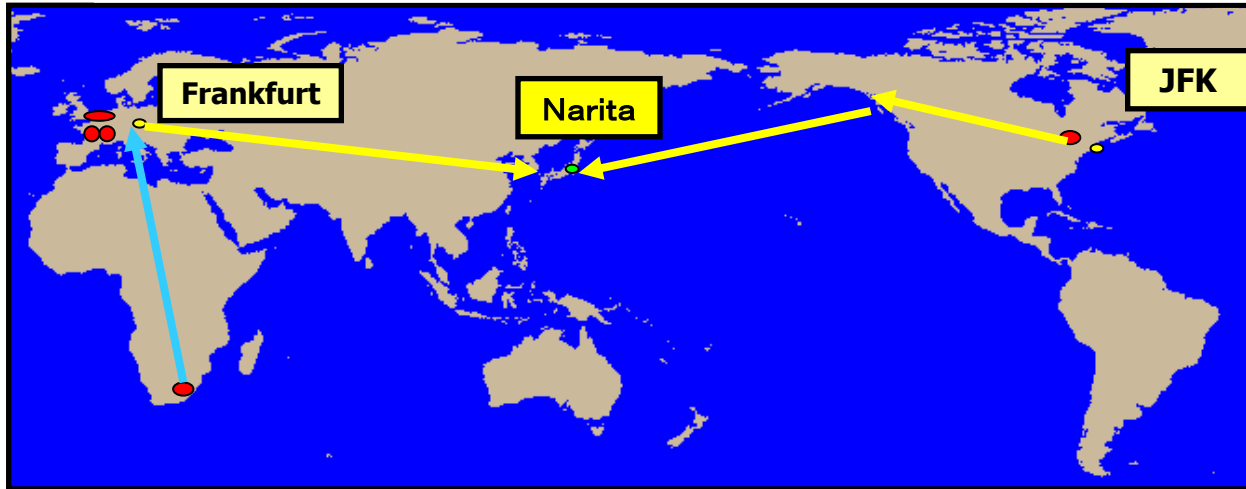


# Amounts of $^{99m}\text{Tc}$ Compounds supplied to hospitals

(FY 2005-2011)



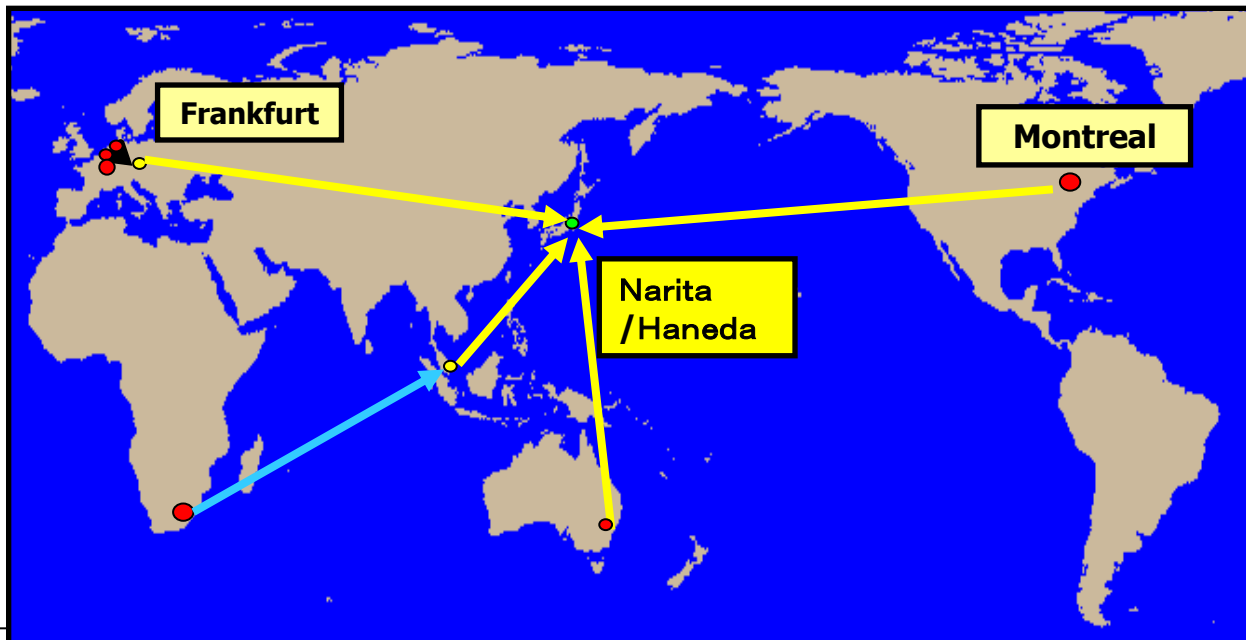
## Transportation routes Then & Now for $^{99}\text{Mo}$



(Before the shortage)

Only via JAL cargo flights

Ex: 4 days from NTP



(Now)

Via Passenger aircraft

Ex: 3 days from NTP

Transportation time has  
now decreased

# Conclusions:

1. We are sharing the information on the current status of Japan's  $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$  market with the international community.
2. There is now neither a reactor nor a processing facility in Japan, making us a 100% importer and price-taker in this supply chain.
3. We are holding periodic meetings with stakeholders, including JRIA, academic board members and industry leaders, to discuss a solution to Japan's  $^{99}\text{Mo}/^{99\text{m}}\text{Tc}$  shortage.

<http://www.jrias.or.jp/index.html>