

Your Vision, Our Future

# Ear, Nose and Throat Business Unit (ENTBU) Strategy

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### **2. Recognition of Current Conditions**

### 3. Market Trends

### **4. Business Strategies**

# **5.**Targets and Indicators



### **2. Recognition of Current Conditions**

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# **5. Targets and Indicators**



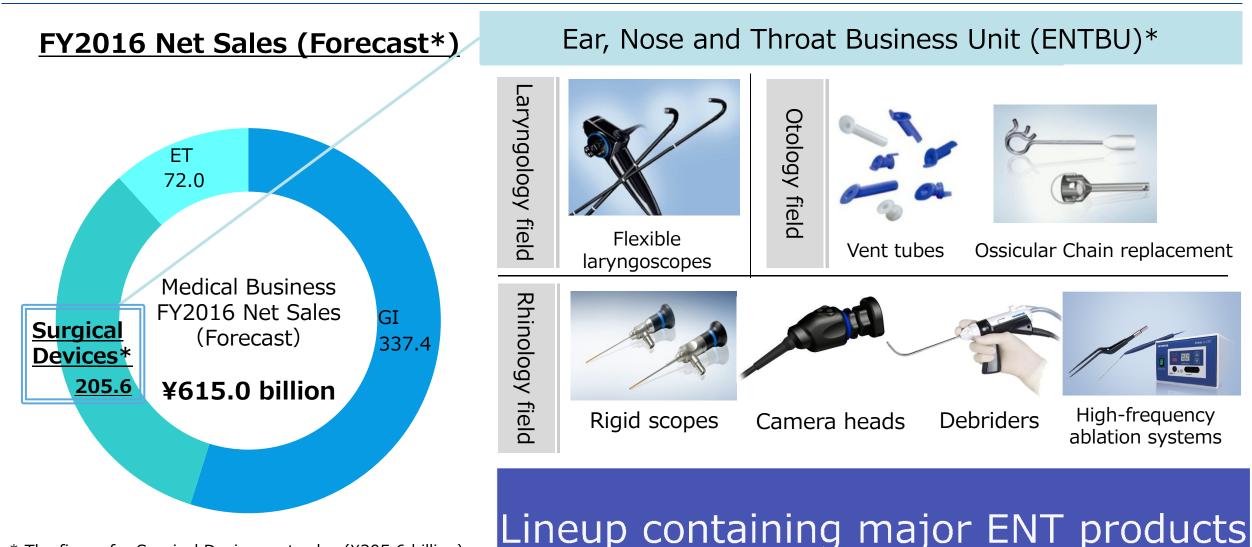
Business with high growth potential and possibility of ongoing expansion to be realized by utilizing Olympus' competencies

Target of business scope expansion using GI and GS technologies

Set to increase earnings capacity through proactive investments strengthening product development and sales networks



#### **Distribution of Sales and Positioning**



\* The figure for Surgical Devices net sales (¥205.6 billion) includes net sales of the Ear, Nose, and Throat Business Unit (ENTBU).

#### **Applications and Characteristics of Major Products**

#### **Major Products**

Flexible Laryngoscopes e.g.: ENF-VH





**Target Diseases and Applications** 

Applications: Laryngeal and pharyngeal diagnosis and treatment

- Flexible laryngoscopes are inserted via the nasal cavity to perform examinations in the laryngopharyngeal region, using NBI\* to diagnose malignant tumors and other abnormalities.
- These scopes can examine vocal cord movements in the larynx using strobe lights. In addition, laser probes or forceps can be inserted via the scope channels to remove polyps or cauterize tumors.

\*NBI : Narrow Band Imaging

#### Characteristics

- Olympus scopes help physicians diagnose oropharyngeal, hypopharyngeal and laryngeal cancer.
- Transnasal strobe light examinations using flexible videoscopes are less painful than oral rigid scope examinations and can be conducted with patients assuming a more natural position.



#### **Applications and Characteristics of Major Products**

Major Products	Target Diseases and Applications	Characteristics
4K Camera Heads and Rigid Scopes	Application: Endoscopic sinus surgery (ESS)	Olympus 4K systems provide high-resolution
		endoscopic images displaying a wide spectrum of colors
DIEGO ELITE	DIEGO ELITE coupled with direct visualization is used to debride diseased tissue from the sinuses	DIEGO ELITE employs proprietary functions such as declog and high- frequency hemostasis to improve surgical efficiency and shorten surgery times

#### Applications and Characteristics of Major Products Rhinology (Office)

Major Products	Target Diseases and Applications	Characteristics
High-frequency ablation systems	Applications: Snoring and sleep apnea syndrome	Olympus possesses a lineup of various probes that can be used as
	RF Ablation is used to create lesions leading to reduced volume and stiffer tissue.	necessary for reaching different surgery target areas or performing

<u>16csp</u> olympus

different procedures.

#### **Applications and Characteristics of Major Products**

Otology

Major Products	Target Diseases and Applications	Characteristics
Vent tubes	<ul> <li>Application: Middle ear infection</li> <li>After making an incision in the eardrum, vent tubes are placed to drain effusion.</li> </ul>	<ul> <li>Olympus provides tubes of varying shapes and sizes to meet the needs of the surgeon and the patient.</li> <li>Special coatings and surface treatments are applied to help prevent blockage within the vent tubes.</li> </ul>
Ossicular Chain replacement	<ul> <li>Application: Hearing impairment treatment surgery</li> <li>These implants are designed to repair the ossicular chain in the middle ear.</li> </ul>	Olympus offers various implants based on the size and structure of the auditory ossicles to be replaced.



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#### **Recognition of Current Conditions**

#### Review of Medium-Term Vision Period (FY2013~)

Strategy	Measure Progress and Evaluation	
	<ul> <li>Expanded flexible video laryngoscope operations by utilizing NBI functions that support early diagnosis of oropharyngeal and hypopharyngeal cancer</li> <li>Introduced 4K imaging systems and commenced full-fledged participation in rhinology OR imaging business</li> </ul>	
Globally develop ENT operations Imaging devices Various treatment devices	<ul> <li>Expanded ESS operations by launching DIEGO ELITE, new product based on one-of-a-kind concept that includes declog function for suction channel and blades equipped with high-frequency hemostasis function</li> </ul>	
	<ul> <li>Introduced DIEGO ELITE into Japan in 2015 after release in Europe and U.S. and commenced global sales activities in ESS operations</li> <li>Bolstered dedicated ENT sales staff and strengthened sales functions in Europe and U.S.</li> </ul>	



#### Utilizing 4K systems and DIEGO ELITE to expand ESS operations

#### Realizing ongoing growth in flexible scope operations

Continually reinforcing global sales systems and extending these activities to emerging countries



Tasks

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#### Market Trends (Japan, U.S. and Europe)

	Field	Market Trends (Operating Environment)	Market Scale (Growth Forecasts)	Share*	Competitors
	aryngology xible scopes	<ul> <li>Improved recognition of NBI benefits and rising needs for early diagnosis</li> </ul>	¥15 billion~ ¥17 billion (CAGR:4~5%)	50~ 60%	■ Hoya
Rhi	<u>ESS</u> imaging	<ul> <li>Increased needs for high-resolution, wide-color-spectrum images through HD and 4K systems</li> </ul>	¥18 billion~ ¥20 billion (CAGR:4~5%)	Less than 1%	■ Karl Storz
Rhinology	<u>ESS</u> debriders	<ul> <li>Sinusitis surgeries and procedures using debriders commonplace in developed countries</li> <li>Healthcare economics in US driving some procedures to alternative site of care.</li> </ul>	¥22 billion~ ¥24 billion (CAGR:4~5%)	10~ 15%	Medtronic
	Otology <u>nplants and</u> <u>ent tubes</u>	<ul> <li>Slight increase in illness case numbers and procedure numbers</li> </ul>	¥5 billion $\sim$ ¥7 billion (CAGR:Less than 1%)	40~ 50%	Medtronic

\* Source: Olympus Corporation 16CSP OLYMPUS

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#### **Business Strategies**

Laryngology	1	Expand ENT flexible endoscope operations centered on "videonization"
Rhinology	2	<ul> <li>Acquire endoscopic sinus surgery (ESS) operations</li> <li>Expand sinus surgery imaging operations centered on 4K systems</li> <li>Expand sinus surgery product portfolio centered on DIEGO ELITE</li> <li>Implement measures in preparation for introduction of minimally invasive treatments into alternate sites of care</li> </ul>
Overall	3	Establish global sales systems

#### Expand ENT flexible endoscope operations centered on "videonization"

#### Differentiate by soliciting benefits of NBI

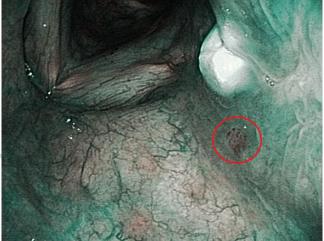
- Acquire clinical evidence on medical efficacy of NBI
  - Possible utility for ensuring surgical margin of surgery for laryngeal and pharyngeal cancer
  - Possible utility for improving detection ratios of laryngeal and pharyngeal cancer
- Advance activities to achieve insurance reimbursement listing for NBI

#### **Promote shift from fiberscopes to videoscopes**

Focus on NBI technologies and other high-value-added product lines that can be differentiated <Ratio of "videonization">

U.S.:  $50\% \rightarrow 60 \sim 70\%$  Europe:  $20\% \rightarrow 50 \sim 60\%$ 





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#### Acquire endoscopic sinus surgery (ESS) operations

# Expand sinus surgery imaging operations centered on 4K systems

- Expand ENT OR imaging operations by utilizing 4K systems
  - High-resolution images

Simplification of procedures through improved visibility realized by 4K resolution

• Natural color reproduction due to wide color spectrum Ability to select color reproduction settings based on ENT application





**16CSP OLYMPUS** 

HD Image4K Image\* This images are for illustration purposes

# Expand sinus surgery product portfolio centered on DIEGO ELITE

- Expand ESS operations by providing "See (4K) & Treat (DIEGO ELITE)" solutions that combine tissue declog removal, high-frequency hemostasis, and other differentiated functions, with 4K imaging
- Periodically introduce new products into lineup to optimize ESS systems



#### Acquire endoscopic sinus surgery (ESS) operations





#### Establish global sales systems

# Commence full-fledged development of ESS operations in Japan and Europe

- Enhance sales capabilities by assembling dedicated ESS sales forces
- Proactively introduce successful measures from U.S. market into other markets

#### Step up development of ENT operations in Asia Pacific

- Define target countries (China, Australia, Singapore, etc.) and establish dedicated sales forces
- Pursue phased expansion of market coverage centered on target countries



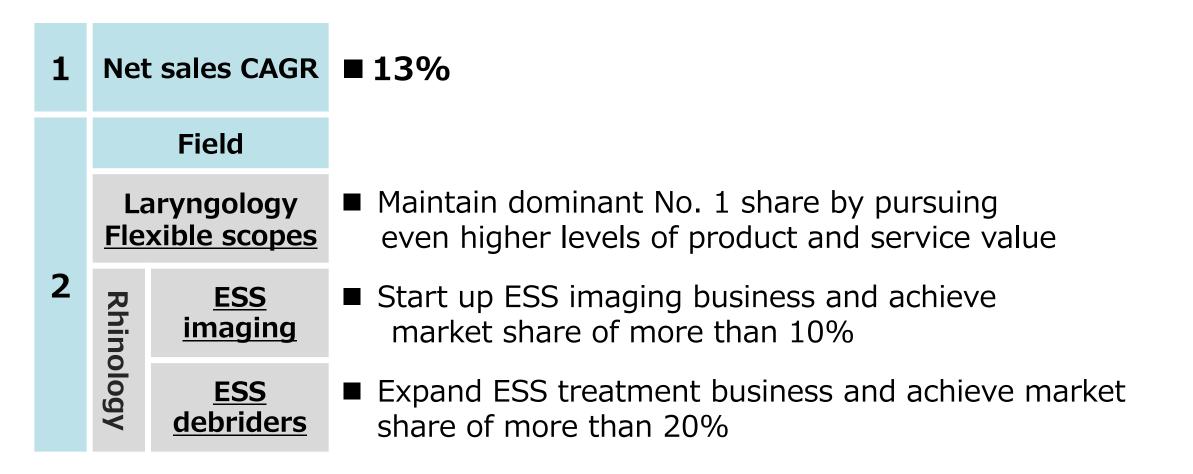
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