No.	KPI	Description	KPI formula	Practice Example	Application Date	Relation with Financials	Merit/Need
1	Number of Challenges to "Unmet Needs"	To understand the degree of companies efforts towards to unmet needs	To let companies to define what "unmet needs" are and count the number of unmet needs areas that company engage depending on their own classification methodology	Sample Business Case: ABC company Definition of unmet needs Unmet medical needs Thrombosis, cancer, diabetes, autoimmune disease/rheumatoid 4	Provided once a year according to the fiscal term.	` '	We can plan area portfolio strategies and check if they work properly. It is also important from a CSR standpoint.
2	Number of Screening	To understand the development capability of new medicine	Breakdown the results of screening for the chemical compounds which entered to preclinical phase by therapeutic categories.	Sample Business Case: ABC company Anatomical Therapeutic Chemical (ATC) Number of Previous 3-year average Nervous system & Sensory organ drugs Each organ drugs Metabolic drugs Stem cell drugs Reference: Wikipedia (Japanese)	Provided once a year according to the fiscal term.	Research and development	We can understand the development capability and the efficiency of screening test in early stages of the new drug research and development pipeline.
3	Number of Patents &Substance Patents Ratio	To understand the development capability of new medicine	(Number of substance patents/Total patents)×100	Sample Business Case: ABC company Substance Process Usage patents Process Datents Potents Number of patents 15 28 32 22 97 Allowance rate of substance patents = (15/97) × 100	Provided once a year according to the fiscal term.		We can plan for a managerial resource allocation by discovering strong areas of internal research and development according to nature of patents.
4	R&D ratio by Therapeutic Area		Breakdown the R&D expenses for the year by therapeutic areas and the phases (preclinical, clinical, alliance) and divided by total R&D expenditure. Disclose with the accumulated amount for the past 5 years.	Sample Business Case: ABC company (Unit: JPY 100 million) Therapeutic Non-clinical Clinical practice rate areas practice rate I II III IV alliances for last 5 years Diabetes	Provided once a year according to the fiscal term.	development costs,	We can take early actions for the next reseach and development (R&D) plan by understanding the effect of strategic allignment of area portfolio and the efficiency from R&D project status for each therapeutic area.
5	Number of Licensing by Area	activities for other geographical areas	Breakdown the licensing expenses for the year by areas and the phases (preclinical, clinical, alliance) and divided by total R&D expenditure. Disclose with the accumulated amount for the past 5 years.	Sample Business Case: ABC company (Unit: JPY 100 million) Locations Non-clinical practice rate practice rate practice rate alliances for last 5 years U.S. Europe In	Provided once a year according to the fiscal term.	development costs,	We can take early actions for the next reseach and development (R&D) plan by understanding the effect of strategic allignment of area portfolio and the efficiency from R&D project status for each therapeutic area.
6	Number of Test Cases by Project	To assume the driving power for clinical test	·	Sample Business Case: ABC company closed 305 contracts with XYZ Contract Research Organization (CRO) and only 246 were executed. Clinical test rate	Provided once a year according to the fiscal term. The higher the rate, the better the performance.	,	We can sort out the relationship status with Contract Research Organization (CRO) looking at the clinical execution rate.

No.	KPI	Description	KPI formula	Practice Example	Application Date	Relation with Financials	Merit/Need
	R&D Success Rate for Therapeutic area and Phase	the transition ratio from the previous	number of chemical compounds at the stage: number of chemical compounds at the previous stage xaccumulated successful rate	Sample Business Case: ABC company Area: Diabetes Clinical phase Number of applications Number of approved Chemical compounds 16 12 10 9 7 6 Success rate 0.75 0.833 0.9 0.77 0.85 Cumulative success rate 0.75 0.625 0.56 0.43 0.37	Provided once a year according to the fiscal term. The higher the rate, the better the performance.		We can plan for a managerial resource allocation by identifying a company's development capacity from the success rate trends in research and development projects.
8	Market Shares for Popular Products (by Area)	To know which country or area the Company obtains the market strength and how the company deploy their market in global market.	Revenue of popular items÷Market Share	Sample Business Case: ABC company Note: The off-patent date deffers by areas. Preliminary patents Rate in Off-patent period	Provided once a year according to the fiscal term.	Rate of return	We can study the effects on drop in sales by the number of off-patent drugs and plan next strategies as soon as drugs go off patent.
9	Number of Deployment Areas for R&D Basis		Number of areas where company deploys laboratories	Sample Business Case: ABC company (sorted by areas) Continuous	Provided once a year according to the fiscal term.		We can plan competitive strategies and verify if the past competitive strategies were successful.
10	Project Ratio by Targeted Area		Breakdown the projects into local and global areas	Sample Business Case: ABC company (Basic research: 4 areas, clinical research: 3 areas, development research: 3 areas) Existance of offices	Provided once a year according to the fiscal term.	Research and development costs	Figuring out the research and development system such as global drug discovery infrastructure, clinical research infrastructure and so on, we can make an optimized research and development investment plan which is focused on future senario of global development.
11	License Ratio by Area	Global Deployment	Breakdown the number of licenses into areas where company has sales rights and divide by total license	Sample Business Case: ABC company Object locations Number of projects Global 70% Local 30% Breakouts of local areas can be indicated in the appendix.		Research and development costs	We can make a managerial resource allocation plan which is focused on future senario of global development by understanding capability of drug discovery infrastructure, clinical research infrastructure and so on of each area.
12	License-In Ratio by Therapeutic Area		Breakdown the number of license-in items by therapeutic areas into developed products and undeveloped products.	Sample Business Case: ABC company Locations In or Out Merchandises Products (unlicensed) y/y Global In Out U.S. In Out	Provided once a year according to the fiscal term. The contract type must be written.	products sales)	We can plan further sales promotion strategies for corporate/organizational alignment by identifying patent usage in locations where there is no sales channel.

No.	KPI	Description	KPI formula	Practice Example	Application Date	Relation with Financials	Merit/Need
	License-Out Ratios by Contract Object	To understand the utilization of inhouse patents and the earnings model by intellectual properties	Breakdown the number of license-out items by therapeutic areas into developed products and undeveloped products.	Sample Business Case: ABC company Therapeutic areas	Provided once a year according to the fiscal term. The contract type must be written.	license-out fees)	We can design further sales promotion strategies or portfolio strategies to use intellectual assets by recognizing not only product sales but also patent usage.
	Number of Accepted Literatures by Therapeutic Area	To understand the quality of researcher	Breakdown the number of accepted literatures for major journals by therapeutic areas.	Sample Business Case: ABC company Sales promotion objectives: total number of products and pipelines = 10 (License-out(L.O.) = 4) Number of license agreements	Provided once a year according to the fiscal term. The contract type must be written.		We can design further sales promotion strategies to use intellectual assets by recognizing not only product sales but also patent usage.
15	Number of patents due to expire(within next 1 year, 3 years, and 5 years)	To understand the strength of pipeline	Breakdown the number of patents due to expire(within next 1 year, 3 years, and 5 years)	Sample Business Case: ABC company 1996-2000 2000-2004 Non-clinical research 2 1 Clinical research 1 3	Provided data of last five rolling years once a year according to the fiscal term.		We can identify good researchers and understand strengths and weaknesses by area.
	Ratio of MR (generalist) by Item		Breakdown the number of MR Generalists by items. (Define MR generalist as MR who is in charge of more than 10 items for this KPI purpose)	Sample Business Case: ABC company Items Rate of MR (G) for the current year MR (G) rate MR (G) rate	Provided once a year according to the fiscal term.	Labor costs	We can prove the capability of the information provision as the result of shares gain.