



DRONES . IRISH · MARKET BLUEPRINT

30 Drone Use Cases for Ireland Modelled on Japan · ranked by profit

Japan is the world's most mature civil-drone economy — from rice-paddy spraying to mandated inspection of ageing bridges. This blueprint maps its thirty highest-value applications onto Ireland, ranked by indicative annual gross profit at national maturity.

€627m

TOTAL ANNUAL GROSS
PROFIT / YR

30

JAPAN-PROVEN USE CASES

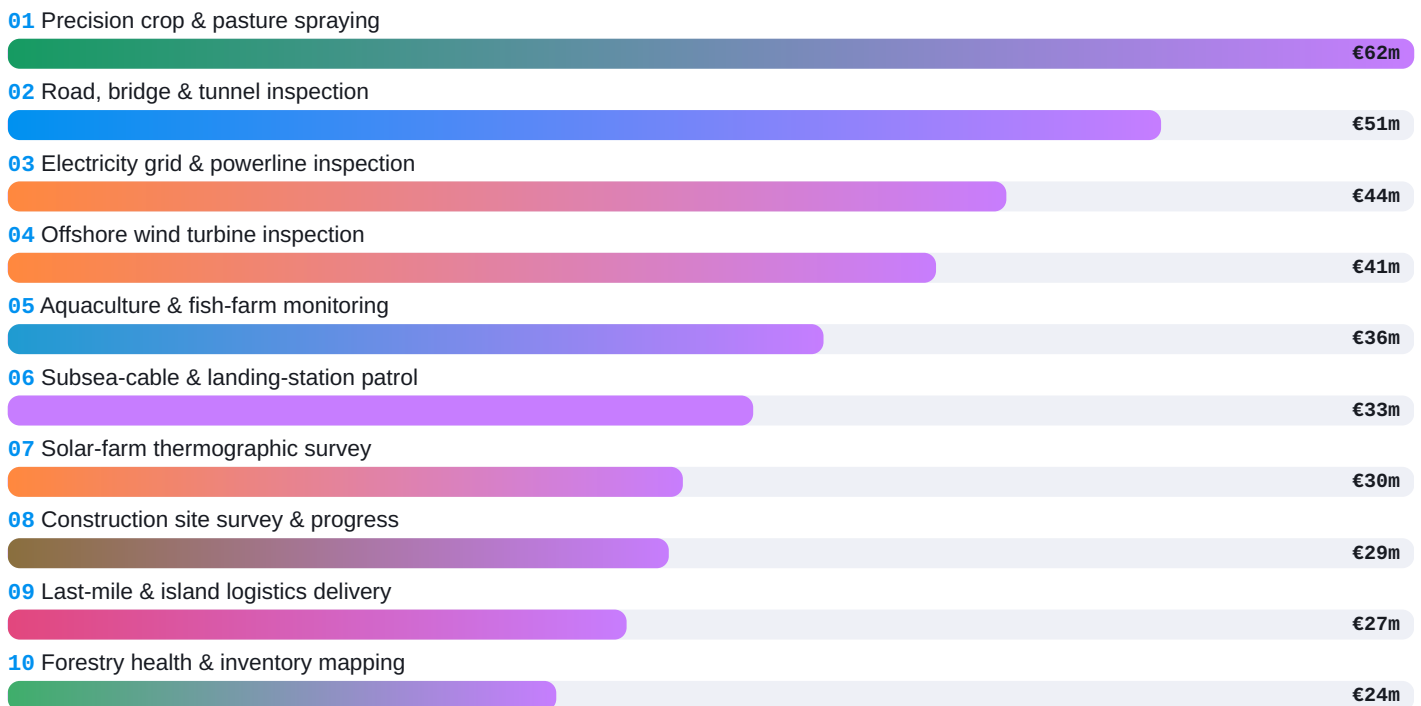
€62m

TOP USE CASE / YR

52%

BLENDED GROSS MARGIN

Top 10 by annual profit – € gross profit / yr at maturity



Full ranking — all 30 use cases

#	USE CASE & JAPANESE PRECEDENT	SECTOR	RELATIVE PROFIT	PROFIT	MARGIN
01	Precision crop & pasture spraying JP · Yamaha RMAX/agri-drones spray >40% of Japan's rice paddies	AGRICULTURE		€62m/yr	48%
02	Road, bridge & tunnel inspection JP · MLIT mandates drone survey of Japan's ageing bridges & tunnels	INFRASTRUCTURE		€51m/yr	55%
03	Electricity grid & powerline inspection JP · TEPCO/Chubu drone line-inspection across the national grid	ENERGY		€44m/yr	57%
04	Offshore wind turbine inspection JP · Japan floating-wind blade & tower drone inspection programmes	ENERGY		€41m/yr	58%
05	Aquaculture & fish-farm monitoring JP · Japan's drone-monitored coastal aquaculture (a global top-3 sector)	MARINE		€36m/yr	52%

#	USE CASE & JAPANESE PRECEDENT	SECTOR	RELATIVE PROFIT	PROFIT	MARGIN
06	Subsea-cable & landing-station patrol JP · NTT subsea-cable surveillance off the Japanese coast	SECURITY		€33 m/yr	54%
07	Solar-farm thermographic survey JP · Drone IR scanning of Japan's mega-solar arrays	ENERGY		€30 m/yr	56%
08	Construction site survey & progress JP · Komatsu 'Smart Construction' drone-driven earthworks	CONSTRUCTION		€29 m/yr	50%
09	Last-mile & island logistics delivery JP · Rakuten/Japan Post BVLOS delivery to remote islands	LOGISTICS		€27 m/yr	42%
10	Forestry health & inventory mapping JP · Drone management of Japan's vast cedar & cypress forests	ENVIRONMENT		€24 m/yr	53%
11	Cell-tower & telecom-mast inspection JP · NTT Docomo drone inspection of nationwide masts	INFRASTRUCTURE		€22 m/yr	57%
12	Railway line & overhead inspection JP · JR drone inspection of track, signals & catenary	INFRASTRUCTURE		€21 m/yr	55%
13	Gas & pipeline integrity survey JP · Japanese utility drone leak-and-corrosion patrols	ENERGY		€20 m/yr	56%
14	Critical-infrastructure perimeter security JP · SECOM/ALSOK autonomous patrol drones at Japanese sites	SECURITY		€19 m/yr	51%
15	Disaster mapping & flood response JP · Drone response to Japan's typhoons & earthquakes	EMERGENCY		€18 m/yr	44%
16	Medical & blood sample delivery JP · Japan remote-island drone medical supply routes	LOGISTICS		€17 m/yr	43%
17	Cadastral & GIS mapping survey JP · Drone cadastral re-survey across rural Japan	SURVEY		€16 m/yr	54%
18	Building & roof insurance inspection JP · Japanese insurer drone post-claim roof surveys	INSURANCE		€15 m/yr	58%
19	Quarry & mine volumetric survey JP · Drone stockpile volumetrics at Japanese aggregate sites	RESOURCES		€14 m/yr	55%
20	Livestock & herd monitoring JP · Japanese precision-livestock drone counting & welfare	AGRICULTURE		€13 m/yr	49%
21	Warehouse & yard inventory drones JP · Indoor inventory drones in Japanese distribution centres	LOGISTICS		€12 m/yr	50%
22	Coastal erosion & sea-defence survey JP · Drone survey of Japan's tetrapod seawalls & coast	MARINE		€11 m/yr	53%
23	Port & terminal logistics overwatch JP · Drone yard-ops at Japanese container ports	LOGISTICS		€10 m/yr	49%
24	Wildfire & gorse-fire recon JP · Japanese drone wildfire detection & mapping	EMERGENCY		€9 m/yr	45%
25	Water-quality & pollution monitoring JP · Drone river & coastal water-quality sampling in Japan	ENVIRONMENT		€8 m/yr	50%
26	Wildlife & biodiversity survey JP · Drone wildlife census in Japanese national parks	ENVIRONMENT		€7 m/yr	47%

#	USE CASE & JAPANESE PRECEDENT	SECTOR	RELATIVE PROFIT	PROFIT	MARGIN
27	Maritime search & rescue support JP · Japan Coast Guard drone SAR augmentation	EMERGENCY		€6m/yr	40%
28	Archaeology & heritage 3-D capture JP · Drone photogrammetry of Japanese temple & monument sites	HERITAGE		€5m/yr	52%
29	Film, tourism & promotion aerials JP · Drone tourism & broadcast aerials across Japan	MEDIA		€4m/yr	46%
30	Drone light-shows & live events JP · Japanese festival & stadium drone light-shows	MEDIA		€3m/yr	44%

Method: each use case is anchored to a documented Japanese civil-drone deployment, then sized to Ireland by relative population, agricultural land, coastline, grid and infrastructure base. Profit = indicative annual gross profit at national maturity (~5-7 yr), gross margin applied to addressable service revenue. Figures are planning estimates for prioritisation, not audited forecasts. Source benchmark: Japan civil-drone market (agriculture, infrastructure, logistics, energy & security segments). © drones.irish.