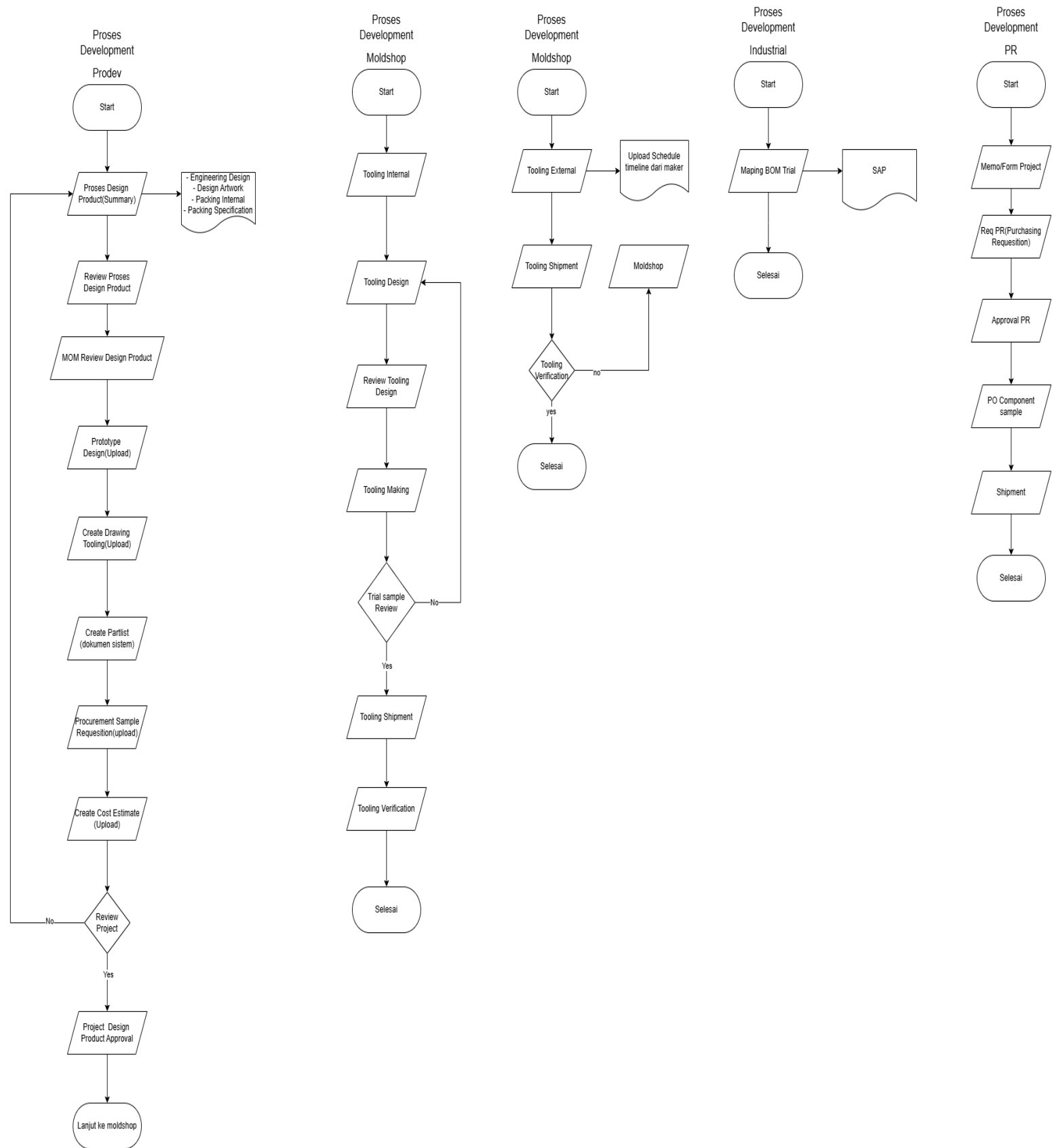


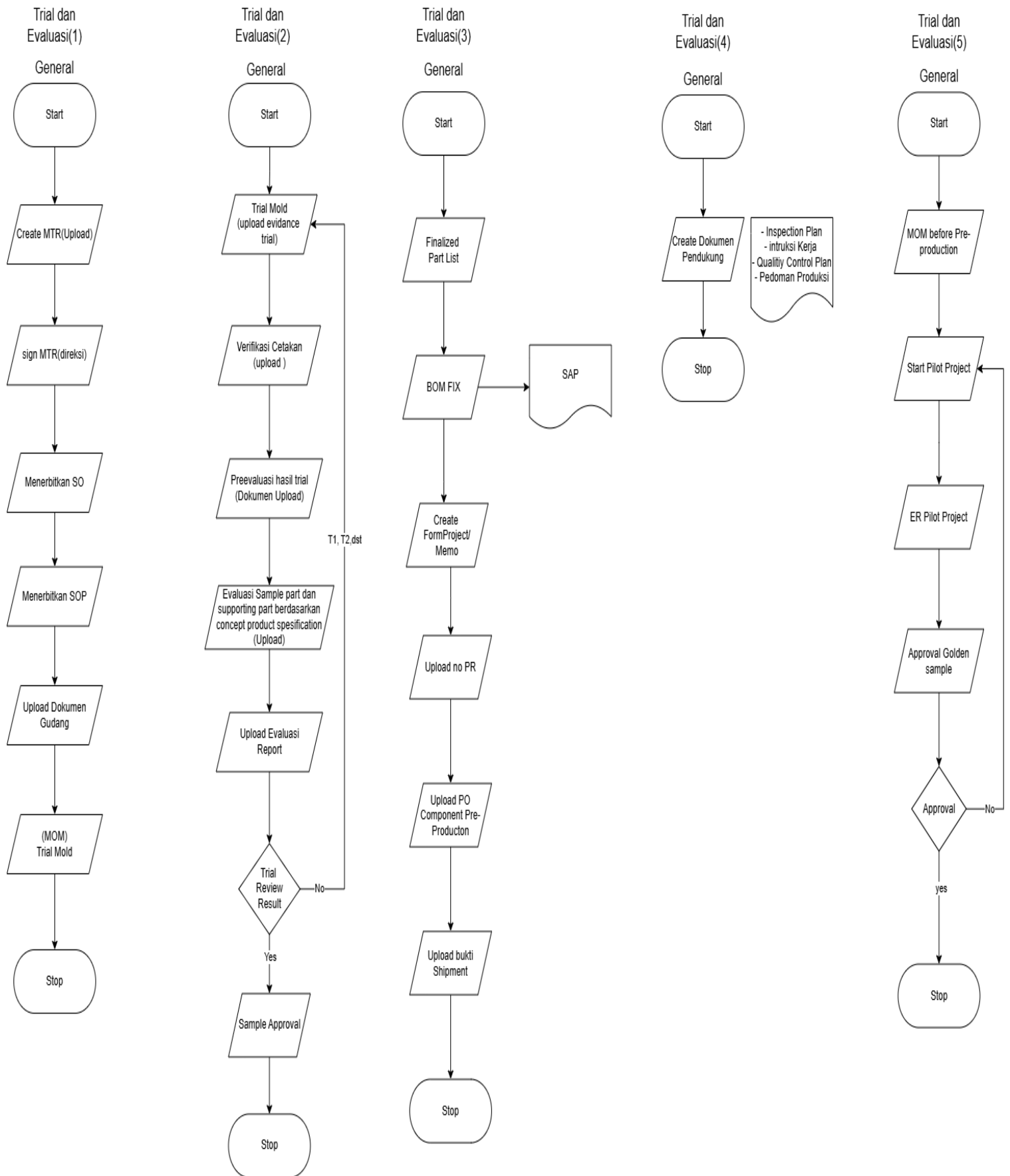
No	Name	Predecessor	Duration	Division
1	Registration Project:			
	a. Create DRQ	7	3	Project Engineer/Customer
	b.Melakukan Review DRQ project		2	Engineer/QA/Moldshop/ Purchasing/produksi/Prodev/OM
	c. Create/Upload MOM		1	Project Engineer
	d. Approval New Project(DRQ)		1	Direksi/customer
2	Membuat Konsep design produk:			
	a. Create Concept Product Specification	20	2	Project Engineer/Design Engineer
	b.Upload product drawing konsep(C)		14	Desain Engineer
	c. Review product drawing konsep		2	Project Engineer/Design Engineer/Customer/Direksi
	d. Approval Konsep Design Produk		2	Direksi/Customer
3	Persiapan Pengembangan:			
	a. Create Profile Information	8	2	Cost Engineering
	b.Approval Profile Information		2	Manager Prodev
	c.Membuat Time Schedule Project		2	Project Engineer
	d.Approval Timeline		2	Direksi/Customer

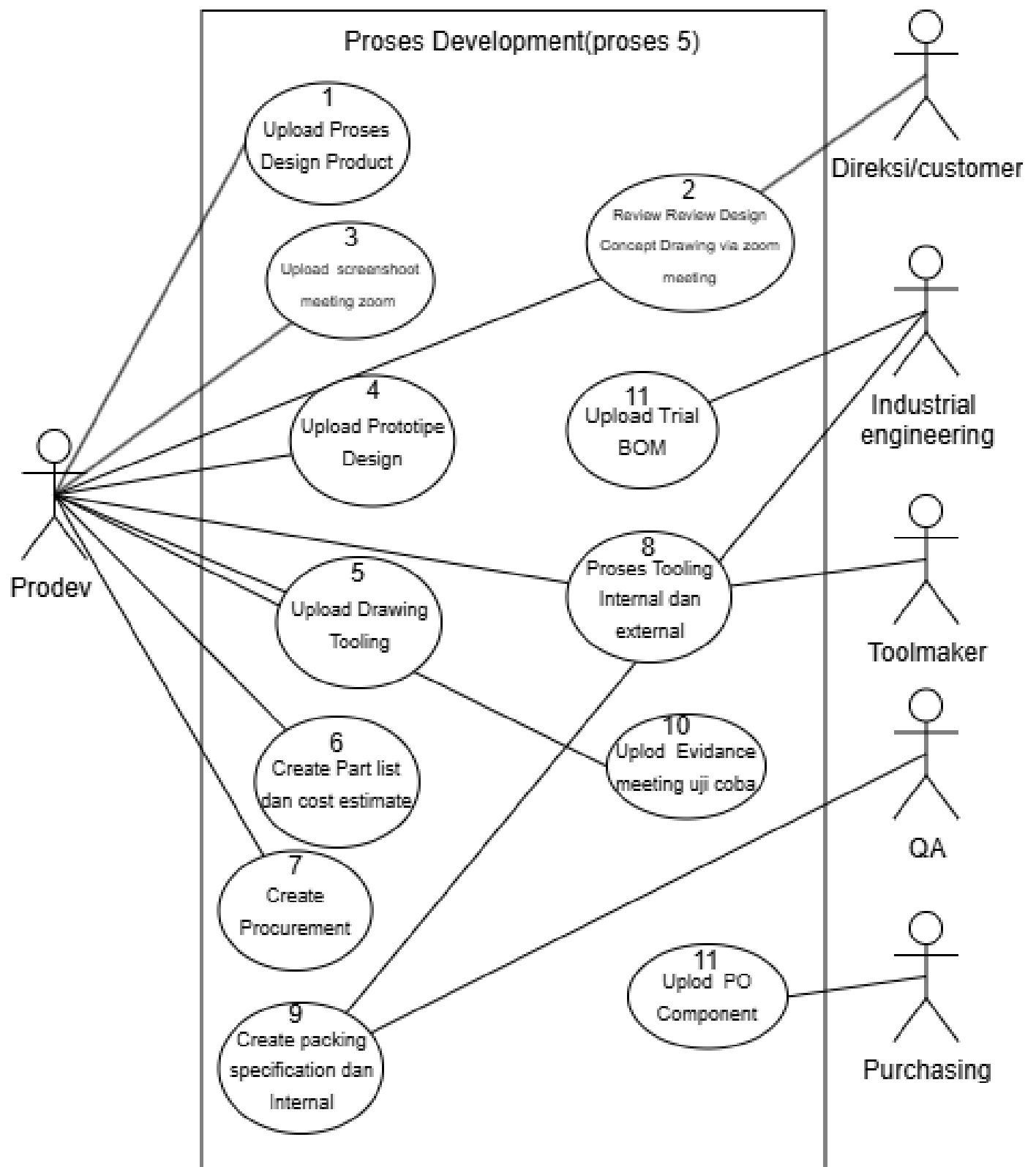
No	Name	Prodecessor	Duration	Division
4	<b>Proses Development (Engineering):</b>			
	a. Proses Design Product(summary)	180		Design Engineer
	- Engineering Design			
	a. Injection Part		60	
	b. Metal part			
	c. Component Part			
	d. Elektronik/Module			
	e. Checking Fixture Jig		5	
	f. Polyfoam		2	
	g. Carton Box(Packaging)			
	- Design artwork			
	a. Wiring Diagram		2	
	b. Kartu garansi dan manual book		5	
	c. Carton box packaging		5	
	- Packing Internal		6	
	- Packing Specification		6	
	b. Zoom Meeting Review Design Concept Drawing		1	Customer dan Design Engineer
	c. Prototype Design		20	Design Engineer
	d. Membuat Drawing Tooling(T)		20	Design Engineer
	e. Pembuatan Part List	90	6	Part dan Cost Engineer
	f. Procurement		30	Design Engineer
	- Sample requisition			Part dan costing Engineer
	g. Pembuatan Cost Estimate		9	Part dan Cost Engineer
	h. Project Approval		3	Direksi/Customer
	i. Proses Tooling internal			Moldmaker
	- Tooling Design		20	Toolmaker
	- Tooling Design Review		2	Toolmaker
	- Tooling Making		20	Toolmaker
	- Tooling Trial		14	Toolmaker
	- Trial Sample Review		14	Toolmaker
	- Tooling shipment		18	Toolmaker
	- Tool verification		2	Moldshop/Prodev
	j. Proses tooling external(upload progres schedule-timeline dari maker)		90	Multi Supplier
	k. Membuat/menerbitkan BOM Trial	7		Industrial Engineering
	- Partlist			
	- Technical Mold data			
	a. Jenis Material			
	b. Tonase			
	c. Cavity			
	d. Estimasi cycle time			
	- Matrix Warna			

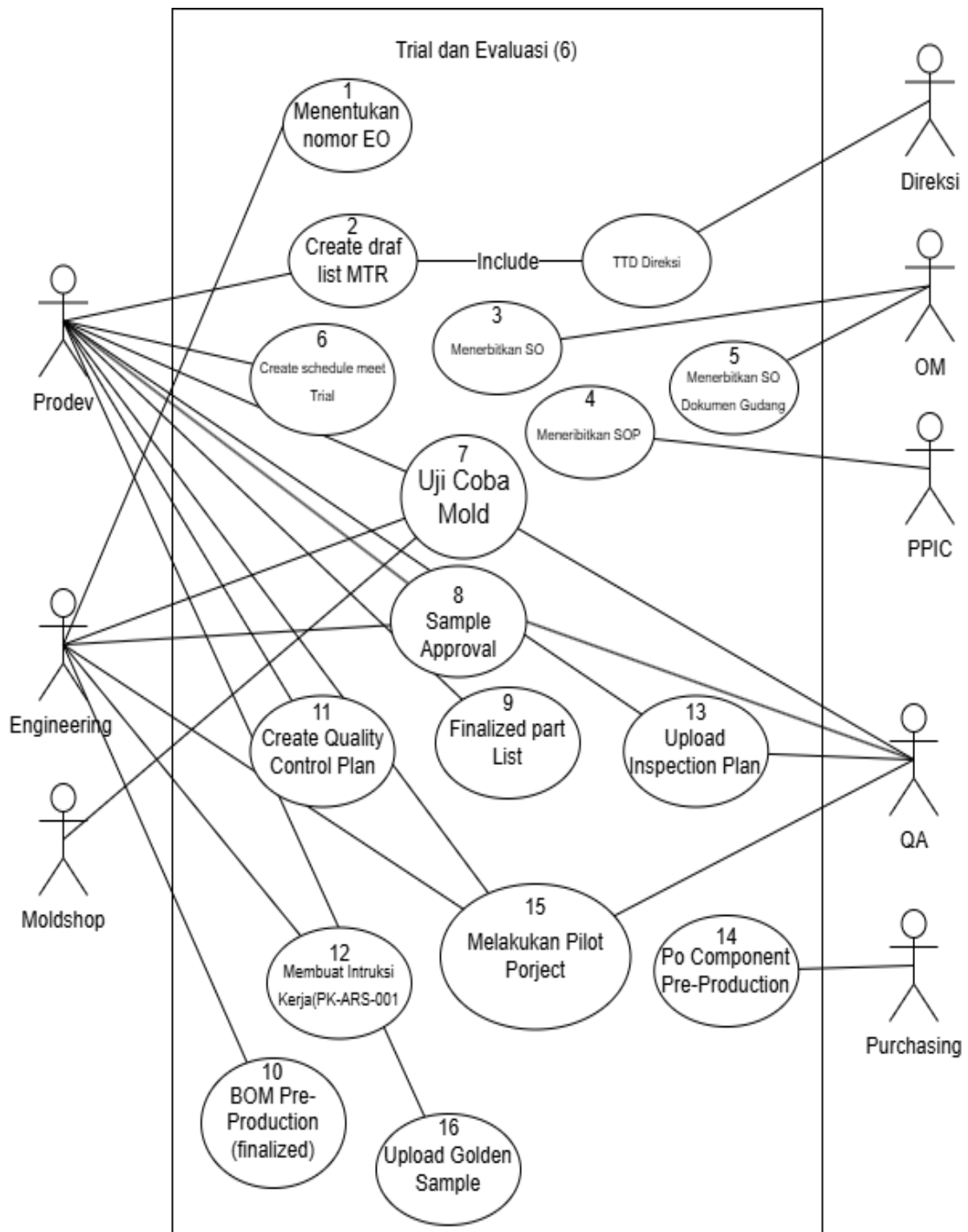
	- Warna dasar secondary Process			
	l. Memo/Form Project		2	Adm Prodev
	m. Approval PR(Purchasing Requisition		1	Customer/Direksi/Finance
	n. PO Component Sample		1	Purchasing
	o. Shipment		30	Produksi
5	<b>Tahap Trial dan Evaluasi</b>			
	a. Menentukan nomor EO(Engineering Order)	11	1	Engineering Mold
	b. Membuat draft list MTR(Mold trial Request)		2	Administrasi/Project Engineer
	c. Meminta Ttd direksi		2	Direksi
	d. Menerbitkan nomor (Sales Order) SO		1	Order Management
	e. Menerbitkan SOP		1	PPIC
	f. Menerbitkan dokumen gudang		2	Sales Order Management/PPIC
	g. Membuat Schedule Meeting		1	Project Engineer
	h. Melakukan Meeting Trial Mold		1	Prodev/QA/Enginnering/PPIC/ Engineering Mold/Moldshop
	i. Melakukan Trial Mold	75	30	Moldshop/Prodev/ Engineering/QA
	k. Verifikasi Cetakan		5	Moldshop/Prodev/Engineering /QA
	- Produk Sesuai dengan drawing			Moldshop/Prodev/Engineering /QA
	- Fungsinya Ketika di assembly sesuai dengan yang diinginkan			Moldshop/Prodev/Engineering /QA
	- Kualitas tampilan sesuai dengan yang diharapkan customer			Moldshop/Prodev/Engineering /QA
	j. Melakukan Pre-evaluasi hasil trial		3	Moldshop/Prodev/Engineering /QA
	k. Melakukan/membuat Laporan Evaluasi trial		3	QA
	l. Evaluasi sample part dan supporting part berdasarkan concept Product Specification			QA
	m. Trial Ulang(jika diperlukan)		-	Moldshop/Prodev/Engineering/ Engineering Mold/QA
	n. Membuat Sample Approval		7	Prodev/Process Engineer/Industrial Engineer/QA/produksi
	o. Membuat Color Range Board		3	Prodev/Process Engineer/Industrial Engineer/QA/produksi
	p. Membuat Defect Range Board		2	Prodev/Process Engineer/Industrial Engineer/QA/produksi
	q. Membuat Customer Specification Approval		2	Prodev/Process Engineer/Industrial Engineer/QA/produksi
	r. Finalized Part List		5	Part dan cost Engineer
	s. BOM Finalized		2	Industrial Engineering

	t. Mencatat parameter selama trial(pedoman Pre-Production, pilot project, dan Mass Production)		3	Moldshop/Prodev/Engineering/Engineering Mold/QA
	u. Membuat Quality Control Plan		5	Project Engineer
	v. Create Inturuksi kerja(PK-ARS-001)		3	Process Engineer
	w. Mempersiapkan Inspection Plan Sebagai pedoman quality		3	QA/Prodev
	x. Memo/Form Project		1	Adm Prodev
	y. Approval PR(Purchasing Requestion)		2	Customer/Direksi/Finance
	z. PO Component Pre-Production		2	Purchasing
	aa. Shipment(import/export)		30	Purchasing
	bb. Melakukan Pilot Project	13	3	Prodev/Process Engineer/Industrial Engineer/QA/produksi
	- Pre production		2	Prodev/Process Engineer/Industrial Engineer/QA/produksi
	- Pilot Project		3	
	- Evaluasi Pilot Project		2	Prodev/Process Engineer/Industrial Engineer/QA/Produksi
	- Menerbitkan Evaluasi Report Pilot Project		1	QA
	cc. Upload Golden Sample Approval		1	Prodev
<b>6</b>	<b>Handover</b>			
	a. Mengupload dokumen development		2	Project Engineer
	b. Penyerahan Dokumen Development	4	1	Produksi, Engineering assembly,QA, Project Engineer
	c. Upload MOM Handover		1	Project Engineer
<b>7</b>	<b>Mas Pro</b>			
	a. Produksi Product		-	Produksi, Industrial Engineer, QA, Prodev, Process Engineer









Dibuat oleh

Disetujui oleh

Alam Ageng Sampurno

Andika Nur Biantono

Product Development Staff

Product Development Manager

Mengetahui oleh

Mengetahui oleh

Mengetahui oleh

Bagus Dwi N.F.

Andre

Shendy Permana

IT BP Supervisor

IT Development Section Head

Manager Transformation 4.0