

Beelse

**Cloud Manufacturing
at the service of industry**

**Together, let's change the
world through industry
with BCM - Beelse Cloud
Manufacturing**



Because the planet asks us to live differently, to consume differently and to produce differently.



Digital Stock

A world where only the digital twin of the parts is stored



Production on Demand

A world where we produce only what we need



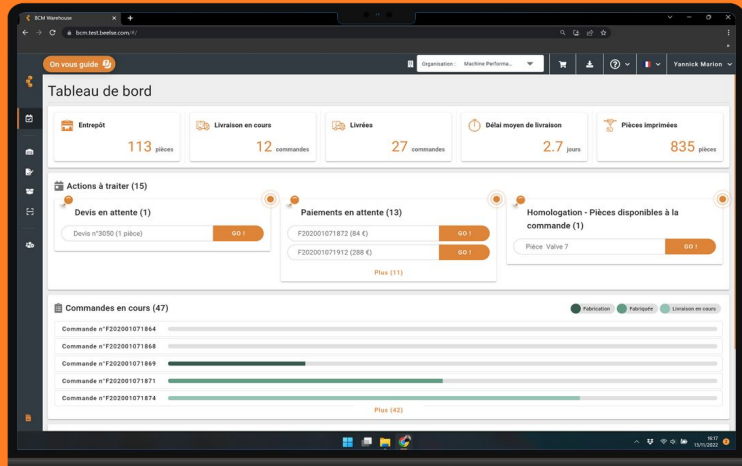
Local Production

A world where we produce as close as possible to the place of use



Immediate Production

A world of direct access to production

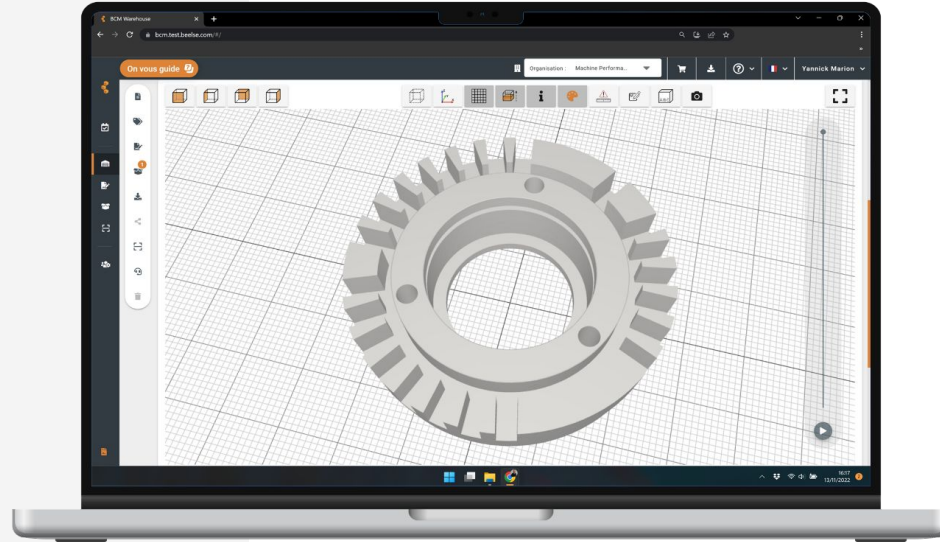


Beelse Cloud Manufacturing

Beelse Cloud Manufacturing (BCM) is a global collaborative and cooperative production system.

BCM provides simple and immediate access to connected production resources available in real time to produce the desired quantity, at the right time and as close as possible to the place of use.

BCM is available in 3 interconnected configurations.



70 %

SAVINGS ON
AVERAGE FOR A PART
PRODUCED WITH BCM

“ Of all the 3D manufacturing platform solutions I've seen, BCM is one of the most successful solutions for part industrialization. ”

Marian De Bonis Hamelin
CTO & HP Labs – Innovation Partnerships

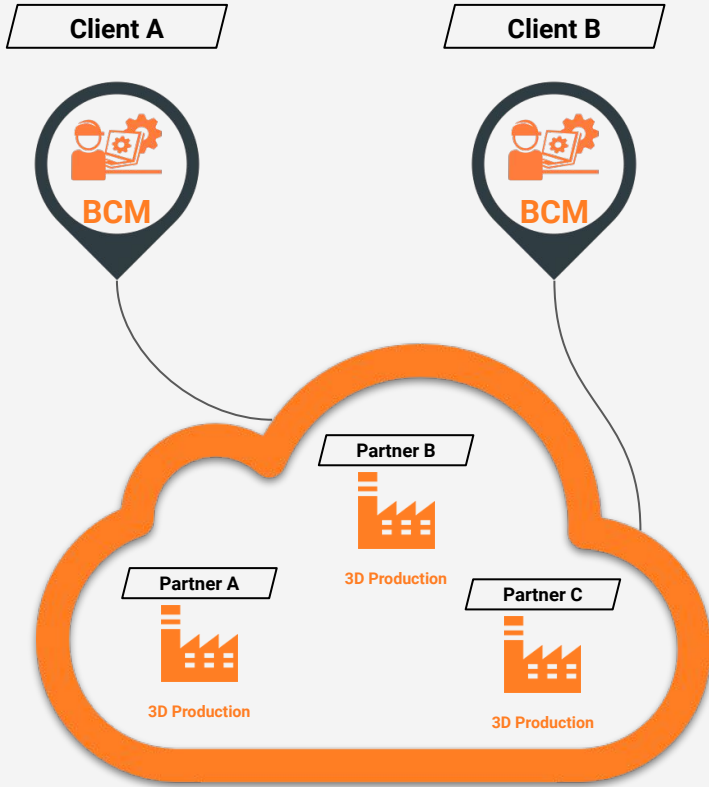


They trust us



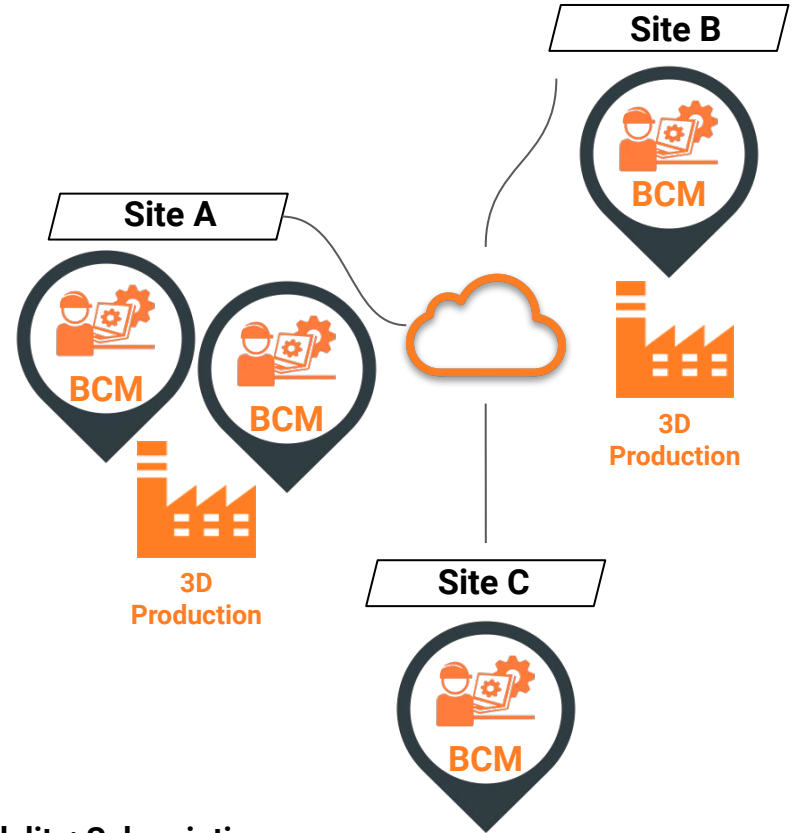
BCM configurations

BCM Global Network



Modality: Subscription

BCM Private Network



Modality: Subscription

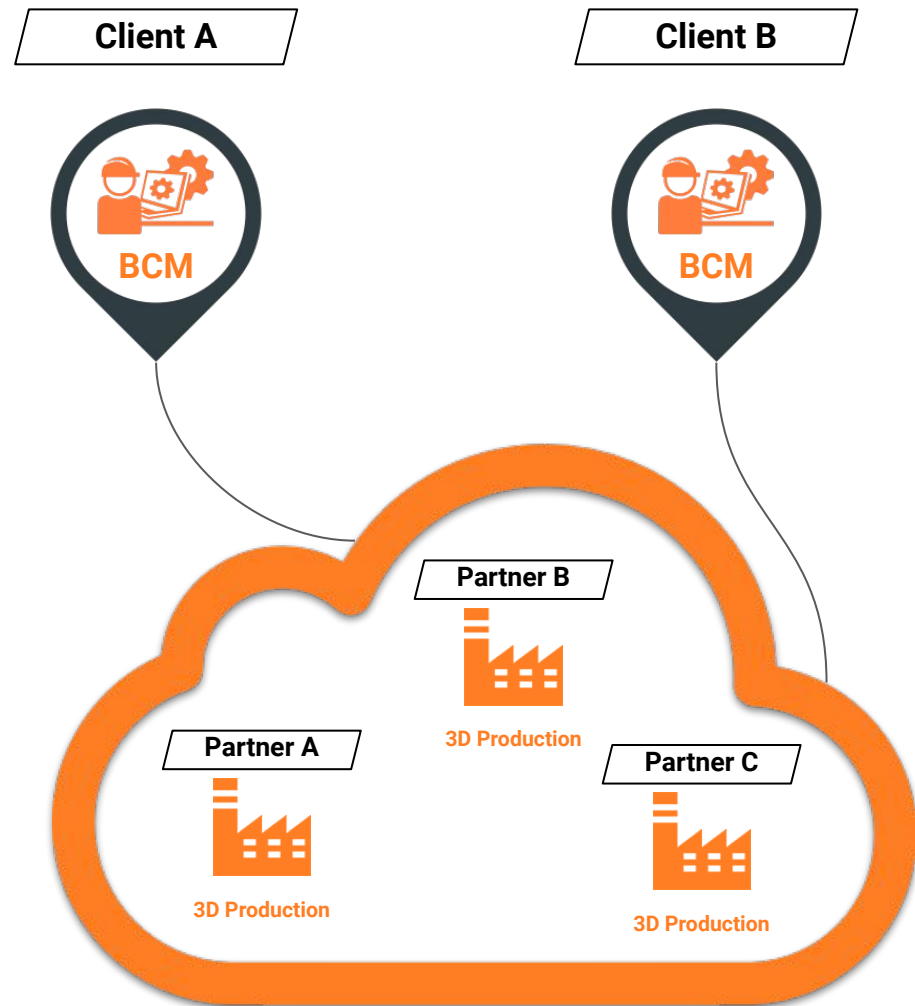
BCM Global Network

BCM Global Network enables on-demand production closer to the point of use through immediate access to the community of Beelse partners specialized in industrial 3D printing parts production.

BCM Global Network provides free access to the latest 3D printing production technologies.

BCM is the most direct way to integrate the use of cloud manufacturing and thus meet new economic, societal and environmental requirements.

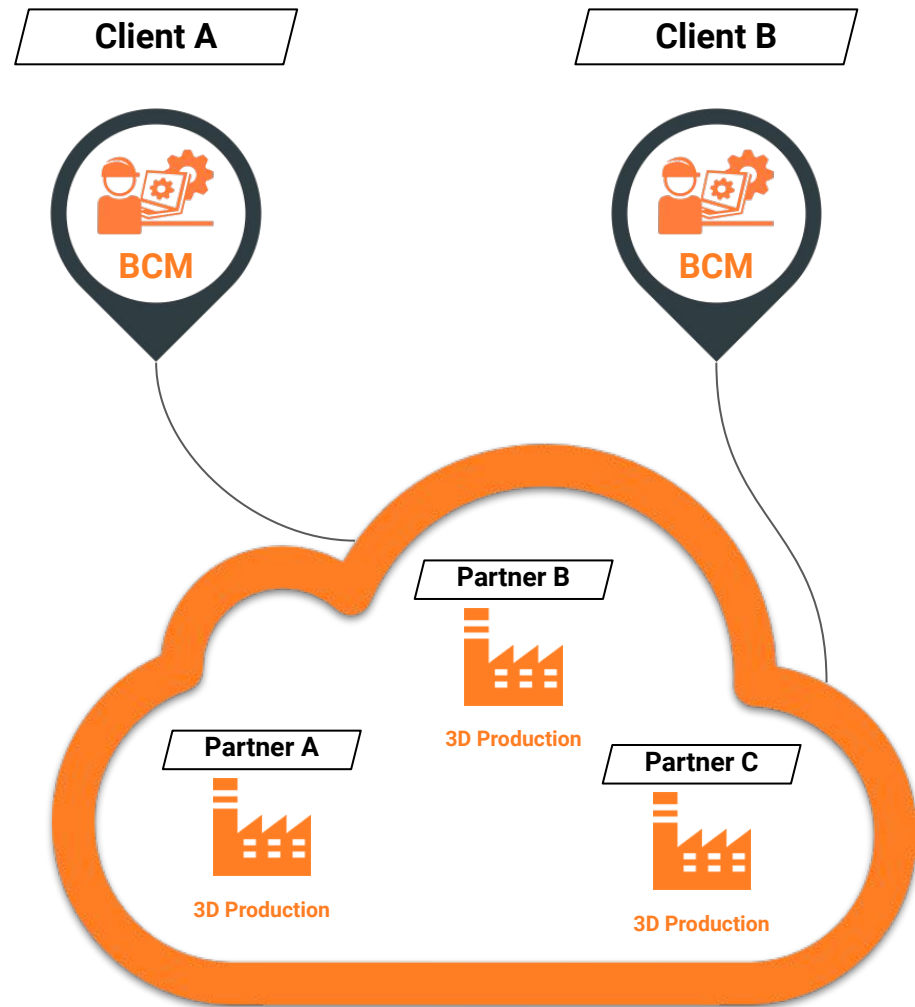
modality: freemium



BCM Global Network

Benefits:

- To industrialize parts from the unit to the series
- Integrating the use of 3D printing in the company without investing in 3D printers and without specific training needs
- Increasing the company's financial flexibility with on-demand production
- Reducing carbon footprint with a production as close as possible to the final use
- And much more!



BCM Private Network

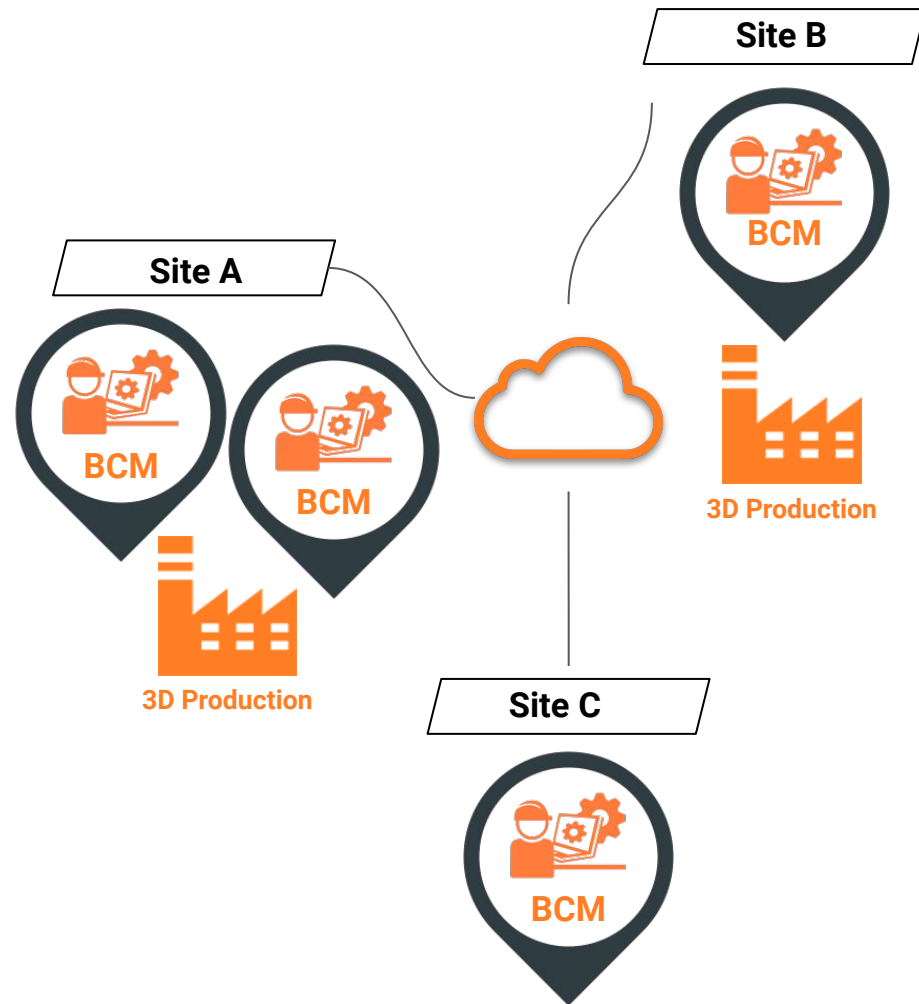
BCM Private Network has been developed for intra-company use.

BCM Private Network allows you to reference and share your company's internal 3D printers and make them available to all of your employees in all of your locations.

BCM Private Network allows you to centralize the information necessary for the production and reproduction of a part in 3D printing.

BCM Private Network can be considered as the "3D printing ERP" for the company.

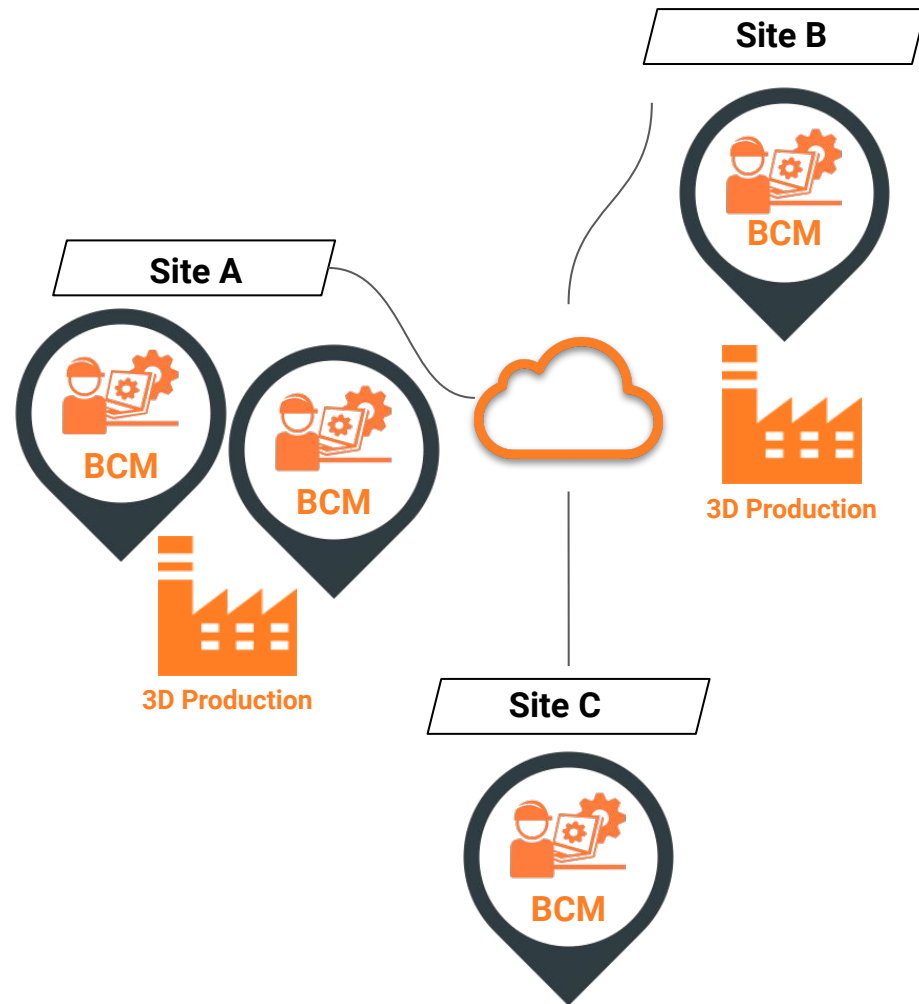
modality: subscription



BCM Private Network

Benefits:

- To structure the use of the 3D printing in the company
- To improve the ROI of 3D printers
- Provide access to 3D printers for all employees
- Centralizing and protecting the company's know-how
- The ability to access the BCM Global Network
- And much more!



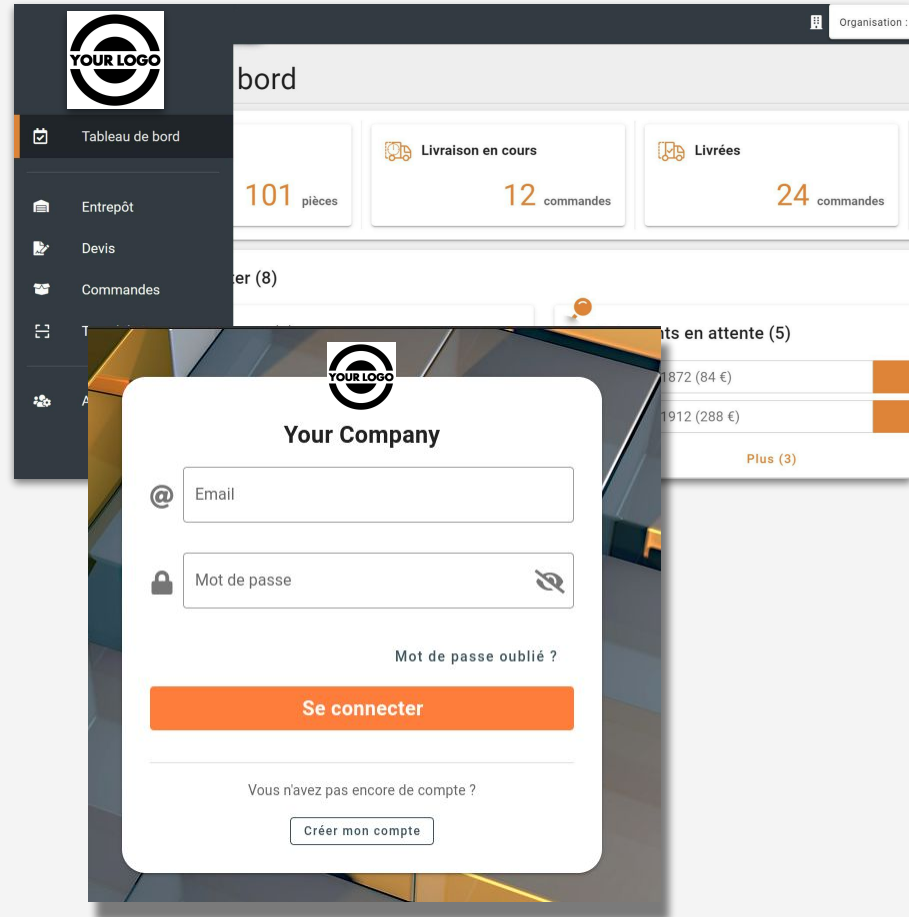
BCM White Label

BCM White Label allows companies to enjoy a BCM that expresses their brand and identity and reinforces their characterization.

BCM White Label has been developed for companies whose business is to produce 3D printed parts for their customers.

BCM White Label allows structuring and automating customer flows on technical, administrative and financial aspects.

Modality: Subscription



BCM features

A digital parts warehouse

Store only the digital twin of the spare parts

The image displays two overlapping screenshots of a digital parts warehouse interface. The background screenshot shows a dashboard with a sidebar menu and a main table of parts. The foreground screenshot shows a detailed view of a part, including a 3D model, pricing information, and material specifications.

Background Screenshot: Entrepôt (54 pièces)

Navigation: Organisation - Machine Performa... | John Piton

Statut: Nouvelle pièce (26) | Remplacement en cours (19)

Statut	Nom	Description	Statut
NEW	VERROU RADIATEUR v14 - MD		
NEW	SUPPORT RADIATEUR v14 - MD		
NEW	3_TK_casing_hive_inoxy		
NEW	Visier	Visier du Laser B7	rf52
NEW	out_Laillage_v2_Pour_BCM		
NEW	3		
NEW	3 (1)		
NEW	support		
NEW	support-GPS		FR-4
NEW	support-GPS(solar-syncreo-2		
NEW	Carter		
NEW	Carter principal_DECRD_G-4_carter superieur		
NEW	part 1		
NEW	Cale		
NEW	v5.3 support angle		

Foreground Screenshot: Détails de la pièce

Organisation - Machine Performa... | John Piton

Catégories: solar

Tarifs

Quantité: 1 | Montant: 9 €

Quantité	Prix par pièce (HT)
1 à 4	9 €
5 à 9	8 €
10 à 19	7 €
À partir de 20	6 €

ADN

Résultats de l'ADN

Mode expert

Pièce fonctionnelle (série)

Technologie: SLS

Matériau: PA-11 Blanc

Enveloppe de définition de périmètre minimal | Volume matière

Hauteur: 74.6 mm | 2.74 mm

A multi-site / multi-service organization

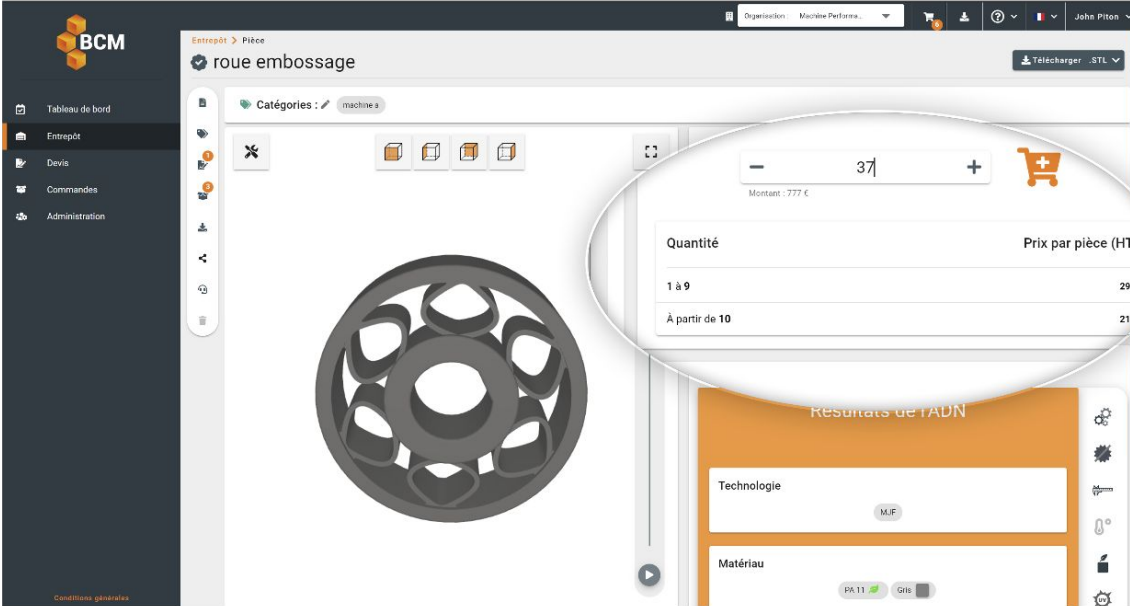
Organize your business to foster collaboration

The screenshot displays the BCM software interface. On the left is a dark sidebar with navigation options: 'Tableau de bord', 'Entrepôt', 'Devis', 'Commandes', and 'Administration'. The main content area is titled 'Entrepôt (54 pièces)'. It features a filter section with 'Type de production' (Prototypes/Maquette (1), Pièce fonctionnelle/Série (47)) and 'Statut' (Nouvelle pièce (26), Homologation en cours (19), Homologuée (9)). A search bar is located at the bottom right of the filter section. Below the filters is a table with columns: 'Statut', 'Nom', 'Description', and 'Référence interne'. The table lists various items such as 'VERROU RADIATEUR v14 - MD', 'SUPPORT RADIATEUR v14 - MD', '3_TX_casing_hive_inoxy', 'Visieur', 'out_EllCompage_v2_Pour_BCM', '3', '3 (1)', 'support', 'support-GPS', 'support-GPS/spare-systeme 2', 'Carter', 'Carter principal_DECRO_G4_carter superieur', 'part 1', 'Cale', and 'v5.3 support sample'. A dropdown menu is open over the table, showing 'Organisation : Future ...' with a list of options: 'Future Inc R&D', 'Future Inc Maintenance', and 'Future Inc International'. The top right of the interface shows a user profile for 'Clement Chabert' and a 'Pièces imprimées' section with a printer icon.

Statut	Nom	Description	Référence interne
	VERROU RADIATEUR v14 - MD		
	SUPPORT RADIATEUR v14 - MD		
	3_TX_casing_hive_inoxy		
	Visieur	Visieur du Laser B7	FR527375384
	out_EllCompage_v2_Pour_BCM		
	3		
	3 (1)		
	support		
	support-GPS		FR450933
	support-GPS/spare-systeme 2		
	Carter		
	Carter principal_DECRO_G4_carter superieur		
	part 1		
	Cale		
	v5.3 support sample		

Production on demand

To produce the right amount at the right time



The screenshot displays a 3D printing software interface. On the left is a dark sidebar with the BCM logo and navigation options: 'Tableau de bord', 'Entrepôt', 'Devis', 'Commandes', and 'Administration'. The main area shows a 3D model of a 'roue embossage' (embossed wheel) with a complex, circular, lattice-like structure. Above the model, there are icons for file operations and a 'Catégories' filter set to 'machine a'. A shopping cart icon is visible in the top right corner. A circular callout highlights a pricing table for the item.

Quantité	Prix par pièce (HT)
1 à 9	29 €
À partir de 10	21 €

Below the pricing table, the 'Résultats de l'ADN' (DNA Results) section shows 'Technologie' set to 'M.F.' and 'Matériau' set to 'PA 11' (checked) and 'Gris' (unchecked).

Order tracking

Real-time monitoring of the progress of your production orders

The screenshot displays the BCM order tracking interface. The top navigation bar includes the BCM logo, a sidebar menu with options like 'Tableau de bord', 'Entrepôt', 'Devis', 'Commandes', and 'Administration', and a top right area with user information and a search bar. The main content area shows the order details for 'Commande - F202001073053'. A progress bar at the top of the order details indicates the current status: 'Planifiée' (checked), 'Production' (checked), 'Préparation pour l'expédition' (active), 'Livraison' (pending), and 'Commande Livrée' (pending). Below the progress bar, the order information includes the date of creation (20 mai 2021, 15:21) and the invoice number (F202001073053). The 'Adresse de facturation' and 'Adresse de livraison' are both listed as 'Machine Performance SAS' at '746, impasse Jérôme Munoz, 25 477 Rocher, France'. A table below shows the order items:

Article	Quantité	Prix unitaire (HT)	Prix (HT)
support-GPspolar-synros-2	6	25,00 €	150,00 €
Avantage Lot	1	-66,00 €	-66,00 €
Prix total des articles (HT)			84,00 €
Prix de la livraison (HT)			30,00 €

Help with industrialization

Define the right combination of material and 3D printer

The image shows two screenshots of a software interface used for defining material and 3D printer parameters.

Left Screenshot: The question is "Dans quelle tranche de température sera-t-elle utilisée ?" (In which temperature range will it be used?). Below the question are five buttons representing temperature ranges: 0°-40°C (0°-10°C), 0°+40°C (0°-10°C), 0°+80°C (0°-10°C), 0°+60°C (0°+10°C), and 0°+130°C (0°+80°C). A horizontal axis shows a range from 0° to 0° with two red markers at 18°C and 115°C. A green checkmark is positioned below the axis.

Right Screenshot: The question is "Quelles sont les contraintes de résistance aux UV de la pièce ?" (What are the UV resistance constraints of the part?). Below the question is the text "(Plusieurs sélections possibles)" (Several selections possible). There are six options, each with an icon and a label: "Lumière artificielle - Néon", "Lumière artificielle - Vapeur de Sodium", "Lumière naturelle intérieure", "Lumière naturelle extérieure", "Lumière artificielle - LED", and "Pas de contrainte particulière". The "Lumière artificielle - LED" option is highlighted with a green checkmark.

Organization of projects

Organize your warehouse as you wish (Projects, products, customers, etc...)

Filtres

Type de production : Prototype/Maquette (1) Pièce fonctionnelle/Série (14)

Statut : Nouvelle pièce (5) Homologation en cours (10) Homologuée (1)

Statut d'homologation : Étude technique et tarification (6) Rejetée (0) Prêt à commander (1)

Commande en cours (2) Test des pièces (1)

Grouper par catégorie

Filter par catégorie:

Rechercher

Statut	Nom	Référence Interne	ADN	Date de création	Dernière modification	Action
— : projet um3						
	Cassette-TOP-Droite-V2		SLS PA 12	23/06/2022	04/08/2022	
	Cassette-TOP-Droite-V2_00000-00		SLS Bluecare	23/06/2022	04/08/2022	
	UM3_Carter capteurs navettes - 5		SLS PA 12	23/08/2022	23/08/2022	
— : projet a.r.c						
	CH-V17		MJF CB PA 12	23/06/2022	04/08/2022	
	V3-Couvercle		SLS PA 12	23/06/2022	04/08/2022	
	V3-Coque		MJF CB PA 12	23/06/2022	04/08/2022	

Secure sharing of parts between BCM spaces

Delegate the order of your parts without transmitting the 3D file

Owner account

The screenshot shows the 'Owner account' interface for a part named 'Casing_hive'. The part is displayed in a 3D view on the left. On the right, there is a 'Tarifs' section with a quantity selector set to 1 and a price table. A callout box highlights the 'Prix par pièce (HT)' table.

Quantité	Prix par pièce (HT)
1	38 €
2	32 €
3	30 €
4	28 €

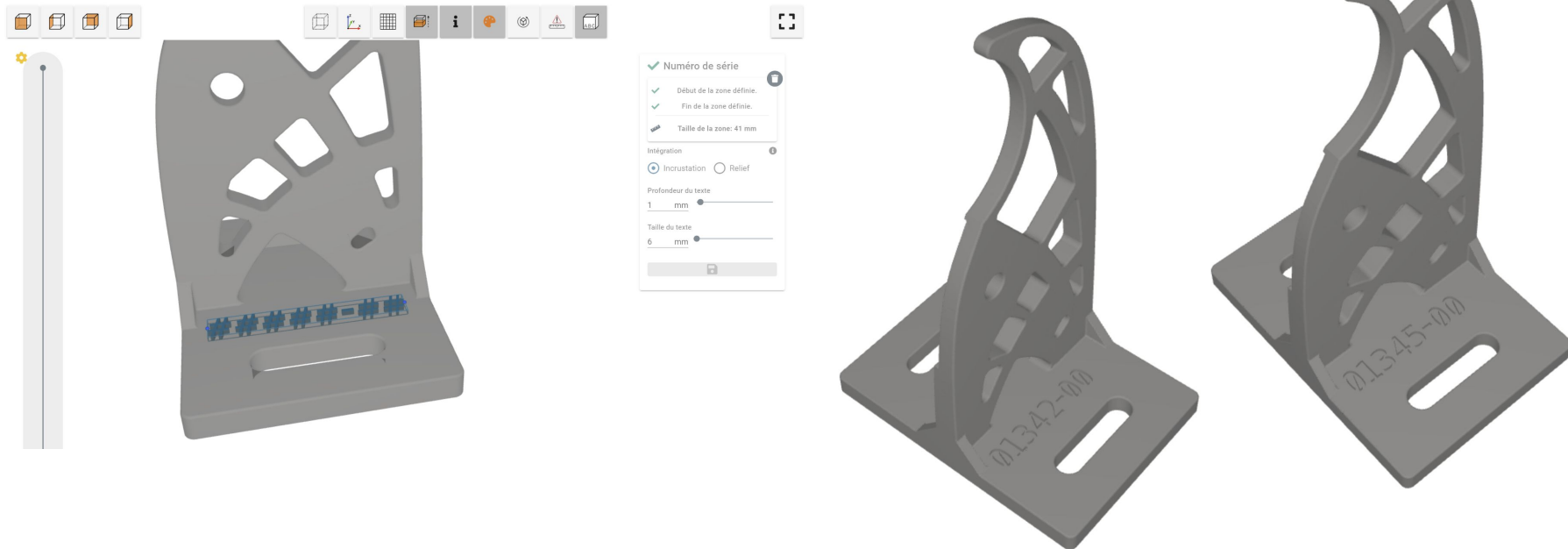
Beneficiary account

The screenshot shows the 'Beneficiary account' interface for a part named 'Casing_hive'. The part is displayed in a 3D view on the left. On the right, there is a 'Tarifs' section with a quantity selector set to 1 and a price table. A callout box highlights the 'Prix par pièce (HT)' table.

Quantité	Prix par pièce (HT)
1	42 €
2	36 €
3	34 €
4	32 €

Automatic marking of parts for traceability

For the follow-up of your productions without any effort



Management of administrative and payment flows

To simplify and accelerate your purchasing processes, in line with your internal organization

Devis - 2995

Total net (HT)	94,00 €
Dont livraison	30,00 €
TVA 20%	18,80 €
Total TTC	112,80 €

Numéro de commande interne (facultatif)

Sauvegarder le numéro de commande

Refuser le devis **Accepter le devis**

- Internal order number
- Open order number
- Automatic sending of invoices to an ERP
- ...

3 Préparation pour l'expédition 4 Livraison 5 Commande Livrée

Commande - F202001074081

Total net (HT)	94,00 €
Dont livraison	30,00 €
TVA 20%	18,80 €
Total TTC	112,80 €

Payer par carte

Veuillez sélectionner un moyen de paiement :

Carte enregistrée **VISA ***** 4242 - Exp : 4/2024**

Nouvelle carte

Payer 112,80 €

746, Impasse Jérôme Munoz

Management of private and public production networks

Poursuivre le processus de commande - Choix du site de production



Fournisseur BCM

→ Un fournisseur du réseau BCM sera sélectionné pour la production de votre pièce

Estimations des prix de la pièce en SLS - PA 12


Quantité	Prix par pièce (HT)
1	34,00 €
2	17,00 €
3	12,00 €
4	9,00 €

[Plus \(3\)](#)

Faire produire la pièce par un fournisseur BCM

Site de production

→ Sélectionnez un site de production

Site de production
Future Inc New York (New York)  




Estimations des prix de la pièce en SLS - PA 12

Quantité	Prix par pièce (HT)
1	10,00 €
2	5,00 €
3 à 4	3,34 €
5 à 9	2,00 €

[Plus \(5\)](#)

Faire produire la pièce par ce fournisseur

- 1 + 

-  Vous n'avez pas spécifié de côte critique pour votre pièce
-  Vous n'avez pas paramétré le numéro de série pour votre pièce
-  Cliquez sur 'Retour' pour ajouter des informations à votre pièce

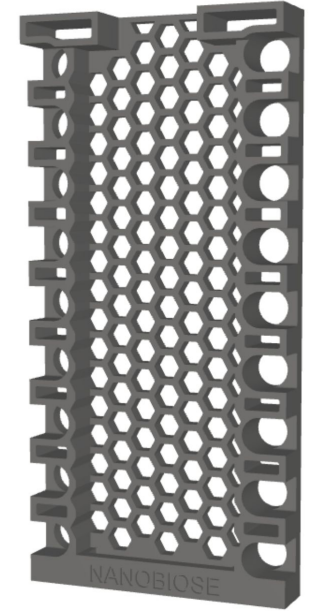
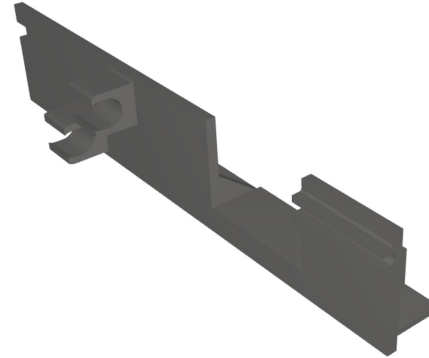
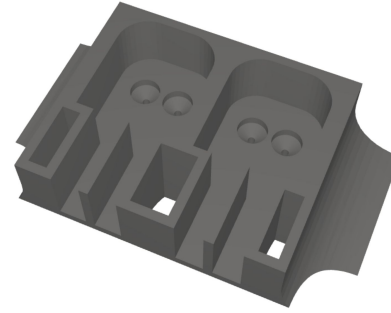
 Retour

Use cases

Customer case : **Nanobiose** (for the sale of finished products)

NANObio**se**

- Pull production
- Product customization
- Accelerated time to market



«With BCM, we have a production tool capable of producing our prototypes but also of industrializing them »



D. Fleury - CEO

Customer case : **ARaymondlife** (for industrial maintenance)

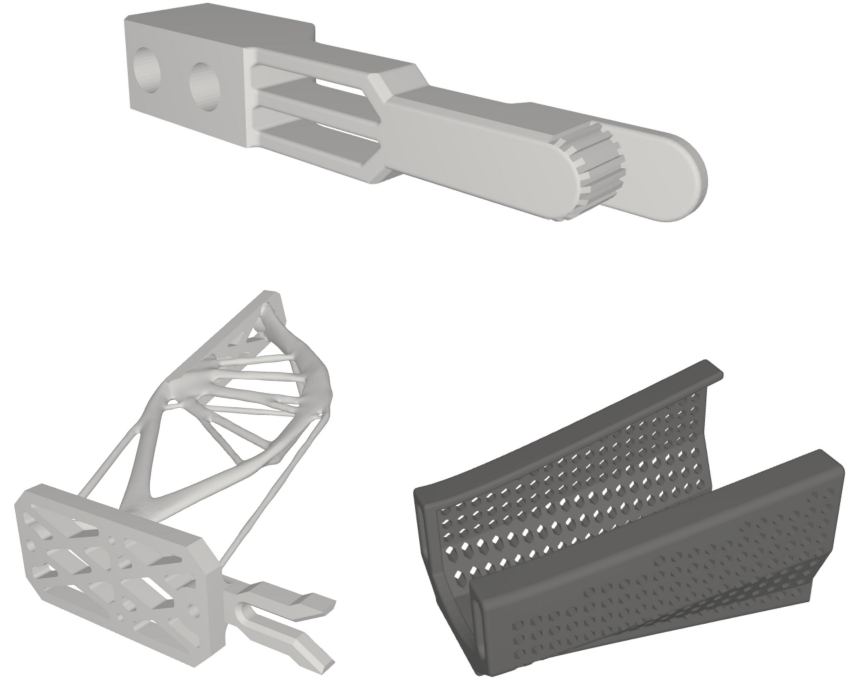


- Inventory reduction
- Autonomy of supply
- 70% reduction in the cost of a part



« In some cases, we have reduced the price of our parts by a factor of 10 and improved their delivery time by 30 days.»

G. ROJON - MAINTENANCE MANAGER



Customer case : **L'Entrepôt du Bricolage** (for the after-sales service)

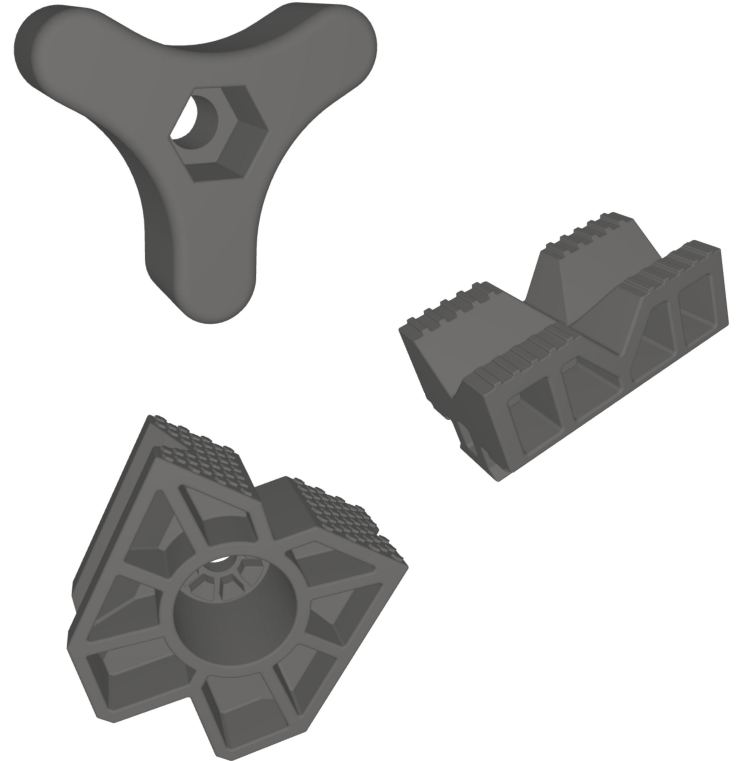


- Reduction of procurement time
- Increased customer satisfaction
- Simplified access to repairability

« For certain spare parts, repairing our customers in 10 days without having the part in stock is now our reality thanks to BCM »



E. Bernard - Head of Missions - Samse Group




“

It is by making industry and industrialization simple and collaborative that we contribute to developing a world that respects nature.

”

YANNICK MARION
CEO

THANK YOU

www.beelse.com

Contact us: hello@beelse.com

Log in to BCM: bcm.beelse.com



FAQ

What is Cloud Manufacturing?

Cloud manufacturing is a grouping of technologies that enable immediate production, on demand and as close as possible to the place of use. We are talking about software technologies, algorithms, Deep Learning and also additive manufacturing, more generally called industrial 3D printing.

What is BCM?

BCM for Beelse Cloud Manufacturing is a collaborative production solution developed by a technology company called Beelse. BCM has the particularity to put in front of production needs, production means connected and available in real time to produce the desired quantity, at the right time and as close as possible to the place of use.

What is additive manufacturing?

It is a production method that manufactures parts without the help of dedicated production tools such as injection molds. The processes create the parts by successive additions of layers of mainly polymer or metal material. This makes it possible to produce from one unit to large series on the same machine. The term additive manufacturing applies to industrial processes. The general public name is 3D printing, for simpler processes.



FAQ

How can I be sure that I have BCM-eligible spare parts?

Academic studies estimate that 5-15% of existing parts in a company are eligible for cloud manufacturing. This potential increases significantly if they have been designed for additive manufacturing.

Do I have to own the 3D files?

Yes, it's an obligation. You can't manufacture parts that don't belong to you. This is an important point of the intellectual and industrial protection of the BCM solution. However, it is possible to create a generic of the original part by respecting certain rules.

What are the prerequisites to access BCM?

It is very simple ! A computer, internet and an updated web browser (preferably Chrome).



FAQ

How does BCM meet the economic challenges of my company?

From now on, you should consider BCM as a new production component whose main assets are flexibility and reactivity. For example, BCM can reduce idle inventory and its related costs while improving customer satisfaction. In some cases, it is possible to achieve a 70% reduction in the total cost of ownership (TCO) of a part thanks to BCM.

What is TCO?

The TCO (Total Cost Ownership) was created by Gartner in 1998. Its objective is to take into account all the direct and indirect costs of a product. Its calculation highlights the hidden costs that are usually forgotten in the analysis of the price of a part.

Where is my data stored in BCM?

The data is stored on a cloud on French territory in order to guarantee the confidentiality and security of the data.