



Support the City's
Transformation
支持城市轉型

Alliance 360 MAGAZINE

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Drive Operational
Excellence – A Digital
Transformation
推動營運革新
- 數碼轉型



Transform Today
Thrive Tomorrow
蛻變今天 開創明天

Contribute to a
Carbon-neutral
Economy
邁向碳中和經濟

 **Alliance 友盟**

A joint venture company between  and HEIDELBERGCEMENT

Transform Today

Thrive Tomorrow

蛻變今天 開創明天



VINCENT YU
CHIEF EXECUTIVE OFFICER
余振偉 行政總裁

The world is undergoing profound changes. The COVID-19 pandemic has reshaped the global landscape. The world has entered into an entirely new era of turbulence, there are unprecedented challenges and opportunities in the new normality. It's a critical time for us to rethink our purpose and how can we transform today to create value in the future.

Our purpose is to contribute to a better future for Hong Kong and our building materials and solutions have shaped significant development of the city for 60 years. Now is the time to lay the foundation for our future. We build our success on our customers' success, we strive to meet their expectations and even solve their problems before they arise.

To drive the transformation, we must develop a strong awareness to think and action differently, the norms and practice of the past would no longer fit for the future. We have to invest to create positive changes that can meet with the different and higher expectations in the future. Digitalization and decarbonization are two of our strategic pillars to support our purpose and business growth strategies.

We have embarked our journey of digitalization with the go-live of SAP system and to pave the way for our future digital solutions, such as e-docket and online ordering platform. We

have achieved a major milestone of decarbonization, with more than 40 of our concrete products being certified as low-carbon concrete mix designs under the "CIC Carbon Labelling Scheme". We have also completed the solar power project at Yuen Long plant and Tsing Yi plant. It will directly offset CO₂ from our operations and promote the development of renewable energy in the industry.

Leaders and staff of Alliance all have a key role to play in the transformation to create a better future. We shall push the boundaries to strengthen innovation and deepen partnerships with our customers and other stakeholders. Together we craft material solutions for the future. Together we will emerge stronger.

我們的世界正在經歷深層次的演化。新型冠狀病毒大流行病重塑了全球格局。我們的世界進入了一個全新的動盪時代，在新常態下衍生了前所未見的挑戰和機遇。現在是一個關鍵時刻，我們必須重新思考我們的目標，尋求在今天作出轉變以創造未來的價值。

我們的目標是為香港建設美好的未來作出貢獻。在過去六十年，我們的建築材料和解決方案塑造了這座城市的重要發展。現在是我們為未來打好基礎的最佳時機。我們的成功乃建基於客戶的成功，我們致力滿足他們的期望，甚至在問題出現之先便提前為客戶解決困難。

為了推動變革，我們必須培養強烈的覺醒意識，以不同的方式思考和採取行動。舊有的規範和做法將不再適用於將來。我們必須投放資源，積極作出正面改變，以適應未來不同和更高的期望。數碼化和減碳是我們的兩個戰略支柱，以支持我們實現業務目標和增長策略。

通過全新SAP系統的上線，我們踏上了數碼化的旅程，並為我們未來的電子解決方案，包括智能送貨單系統和網上下單平台奠定了堅實的基礎。年內，我們在減碳方面完成了一個重要里程碑。公司有超過40多種低碳設計的混凝土產品已獲得建造業議會的綠色產品認證。我們亦在元朗廠及青

衣廠完成了太陽能發電項目。此項新投資可直接抵消我們營運中的二氧化碳排放，並促進建材行業的可再生能源發展。

友盟的領袖和員工在為創造更美好將來的變革過程中都扮演著關鍵的角色。我們將突破局限，在加強創新的同時，加深與客戶和其他持分者的合作關係。聯合起來，我們為未來製定建材方案，並肩同行，我們會變得更興盛強大。

Drive Operational Excellence

推動營運革新



THE WAY FORWARD – A DIGITAL TRANSFORMATION
邁步向前 數碼轉型

As part of our commitment to provide our customer with innovative and efficient services, we have successfully migrated to a new SAP system on 1 November, 2020 to further enhance digitalization. The new SAP system enables us to improve our operational efficiency for the benefits of all our customers.

一直以來，友盟均致力於為客戶提供創新和高效率的服務。公司的營運系統已於2020年11月1日全面整合至全新的SAP系統，進一步邁向全數碼化營運。新的SAP系統可優化公司整體業務流程，令所有客戶均有所裨益。

NEW SAP SYSTEM ONLINE ON 1 NOVEMBER 2020
2020年11月1日新SAP系統正式上線

1 Streamlined Processes

優化的流程

The digitalized operation systems can streamline our processes and improve efficiency to help you meet project goals.

電子化的營運系統可以簡化我們的流程及提升效率，助您達成項目目標。

2 Better Communication

更好的溝通

Integration of all operation systems streamlines our workflow, which will improve communication with the customers.

所有操作系統的一體化整合可簡化我們的工作流程，從而改善與客戶的溝通。

3 Accurate Information

精準的信息

The digitalized systems enable us to provide accurate and instant information to the customers.

數碼化系統使我們能夠為客戶提供更準確和即時的信息。

4 Consistent Quality

一致的質量

Upgrading to the smart and integrated workflow can eliminate human error and ensure consistent quality.

智能系統升級及綜合工作流程可以消除人為錯失，確保一致的質量。

OUR DIGITAL TRANSFORMATION JOURNEY

未來數碼轉型旅程

As a solid foundation for our digitalization journey, the new SAP system will enable us to build further digital solutions for an improved customer experience. Our new customer portal – Hub which launched together with the new system, is a good example of our customer-centric approach through e-revolution. Moving ahead, we will step up our efforts to roll out Phase 2 and 3 of digitalization, including the new e-Docket System and Online Ordering Platform.

新SAP系統將作為我們數碼轉型的根基，以發展更多的電子化方案，提升客戶的服務體驗。我們與新系統同時啟動的全新客戶平台-HUB便是通過電子化革命以實踐以客為中心的最佳例子。展望未來，我們將致力推進第二和第三階段的數碼轉型，包括新的智能送貨單系統及網上下單平台。

PHASE 1

New SAP System & New Customer Portal - Hub
全新SAP營運系統及客戶平台

PHASE 2

New-Docket System
智能送貨單系統

PHASE 3

New Online Ordering Platform
網上下單平台

New Customer Portal

全新客戶平台



Your data
All in One Place
客服數據盡在一



With the new customer portal – Hub, you can check order status and access different useful information.

在新的客戶平台-Hub，您可以輕鬆查看訂單的狀態並獲取各種有用信息。

*Instant delivery tracking will also be available in future development of the Hub.

未來Hub的功能將包括即時交付跟蹤



- Check order and delivery status • 檢查訂單和交貨狀態
- View past and current invoices and dockets • 查看過去及最新發票和送貨單
- Find missing invoices and dockets • 追蹤遺漏的發票和送貨單
- Export docket data into a spreadsheet • 下載送貨單並匯出檔案成為結算單

Address Global Challenges

應對全球挑戰

Transformation Towards a Carbon-Neutral Economy

Concluded from Paris climate conference (COP21) that the earth is under climate emergency. To prevent severe consequences that may have from the climate change threat, we have to keep the increase in global temperature well below 2°C and continue all efforts to limit the temperature rise to 1.5°C. To meet this challenging climate protection goal and halt the climate change, carbon emissions have to attain the “Net Zero” by 2050.

However, to satisfy the needs from population growth, it's predicted that we will double the amount of buildings we currently have on the planet over the next four decades. The embodied carbon, mainly from construction materials is a significant part of the building's lifetime carbon emissions. The reduction of construction materials' embodied carbon is thus crucial to the challenge of “Net Zero”.

Alliance is committed to climate protection. We started quantifying our carbon footprint and embodied carbon of our concrete products in 2008 and 2010 respectively. While we obtained the first Concrete Product Carbon Footprint mark in 2011, our carbon emissions from operations were reduced by 30% as compared to base year 2007. Our effort to cut down embodied carbon included optimising our concrete mixes, promoting the usage of alternate cementitious materials, developing sustainable green products and enhancing concrete logistics efficiency, etc. To help transforming towards a carbon – neutral economy we made two major steps forward in 2020:

- **Drive Down Carbon Emissions by Renewable Energy**
- **Facilitate the Low Carbon Built Environment by Green Concrete**

邁向碳中和經濟

COP21巴黎氣候峰會總結指出地球正處於氣候緊急狀態。為了避免可能因氣候變化威脅而造成的嚴重後果，我們必須將全球溫度上升保持在攝氏2度以下，並繼續致力將溫度上升限制在攝氏1.5度。為了實現這極具挑戰性的氣候保護目標並阻止氣候變化，碳排放量必須在本世紀中達到「淨零排放」。

然而，我們預計在未來的40年需增建多一倍的建築物以滿足人口增長的需求。在建築物整個生命週期中所產生的碳排放中，由建築材料而來的碳排放是主要組成部分。因此，減少建築材料的碳排放對於「淨零排放」挑戰至關重要。

友盟致力於保護氣候。公司自2008及2010年分別開始量化營運中所產生的碳排放及產品所含的碳足跡。2011年，我們獲得了第一個混凝土產品碳足跡標誌。與2007年基準年相比，我們營運所產生的碳排放量已減少了30%。我們在減碳方面的努力包括優化混凝土配方、增加水泥替代材料的應用、開發可持續性綠色產品以及提高混凝土交付物流的效率等。為了邁向碳中和經濟，我們在2020年踏出了重要的兩步，包括：

- **以再生能源減少碳排放**
- **以綠色混凝土促進低碳建築**

Drive Down Carbon Emissions by Renewable Energy 以再生能源減少碳排放

Joined Hands with NEFIN to Generate Solar Power
Offsetting 39 tonnes of CO₂ Annually
與 NEFIN 合作普及太陽能應用每年抵銷39 噸二氧化碳



Annual Electricity 每年發電
76,170 kWh

Alliance has partnered with NEFIN, a leading solar developer and investor in carbon neutrality solutions to design, build and manage a holistic solar power project in two of Alliance's concrete batching plants in Tsing Yi and Yuen Long. The systems can generate 76,170 kWh electricity annually. From December, the electricity output will be able to offset a total of 39 tonnes CO₂ per year, similar to planting extra 647 trees for Hong Kong.

友盟與領先的太陽能碳中和方案發展商及投資者NEFIN攜手合作，在其位於青衣及元朗的兩個預拌混凝土廠房上蓋太陽能項目。兩個系統每年可合共發電76,170度(KWH)。從2020年12月起計算，兩個廠房的發電量足以每年抵銷39噸二氧化碳，相當於額外為香港種植647棵樹。



The introduction of solar PV system to two selected sites is a starting point for us to gain experience of renewal energy. This new initiative also educates our employees the importance of climate protection. We planned to increase the on-site renewable energy source in our energy mix that helps offset carbon emissions from the grid electricity we consumed.

將太陽能光伏系統引入兩個選定的地點是我們汲取使用再生能源經驗的起步點。這項新計劃亦向我們的員工宣傳了氣候保護的重要性。未來我們計劃使用更多的再生能源，以幫助抵消我們因使用電網電力而產生的碳排放。

The implementation of this solar project took place during COVID-19 pandemic. The unprecedented situation has created challenges to both teams. Due to the social distancing restrictions, certain points of the construction process were delayed. With the co-operation and understanding between Alliance and NEFIN, the solar PV systems were completed on time within 2020. The two companies will continue to work together to monitor the electricity output of the two pilot plants and explore the opportunity to promote renewable energy to the other production facilities to enhance efficiency and support the transformation towards a Carbon-Neutral economy.

建造這個太陽能項目期間正值新冠肺炎疫情肆虐，為雙方團隊帶來前所未見的挑戰。受到社交距離措施的影響，施工進度亦因而拖延。幸而在友盟和NEFIN團隊的共同努力下，這個太陽能光伏系統終於在2020年內順利竣工。展望未來，兩間公司將繼續共同監察這兩個先導廠房的發電情況，並探索其他合作機會，例如研究在其他生產設施使用可再生能源的可能性，以提升整體效益並一同邁向碳中和。

Facilitate the Low Carbon Built Environment by Green Concrete 以綠色混凝土促進低碳建築

Concrete Products Recognised by CIC's Green Product Certification-Carbon Label Scheme

混凝土產品獲得建造業議會綠色產品認證

In 2020, we quantified the embodied carbon of our concrete products according to CIC's Green Product Certification – Carbon Label Scheme and conducted the carbon audit. We engaged HKQAA for the independent verification of the quantification and reporting of carbon footprint for the entire range of our concrete products.

在2020年，我們根據建造業議會的綠色產品認證-碳標籤計劃對混凝土產品的碳足跡進行了量化，並進行了碳審計。我們委託香港品質保證局對整個混凝土產品的碳足跡量化和報告進行獨立驗證。



CIC GREEN
PRODUCT CERTIFICATION
CARBON LABELLING SCHEME

We are thrilled to announce that more than 40 concrete products were awarded Carbon Labels from CIC's Green Product Certification. Offering these certified products is our strategic action to:

- Enable our customers' informed low carbon choices through measure and disclosure
- Collaborate with stakeholders within the supply chain to create a low carbon market
- Facilitate the benchmarking and continuous improvement of carbon reduction

For developers and contractors with strong commitment in sustainable development of the industry and the society, the certified low carbon concrete can significantly and directly lower their construction project's carbon footprint. There is no extra work for the customers but the informed low carbon purchasing choice. Recently, Alliance supported Swire's carbon reduction commitment to Scientific-based Target (SBT) by providing low carbon concrete solution to their Two Taikoo Place project.

Before the visionary goal of carbon neutral concrete can be attained, we support "Net Zero" by offering our customers the carbon offset services which offset the concrete's embodied carbon within the project through verified offset schemes.

公司欣然宣布，我們逾40個混凝土產品已獲得了建造業議會綠色產品認證的低碳標籤。提供經認證的低碳混凝土產品是我們的策略性舉措，目的是：

- 以量度和披露協助客戶作出低碳選擇；
- 與供應鏈的持份者共同創造低碳市場；
- 促進基準測試和持續減少碳排放。

對於致力改善社會可持續發展的發展商和承建商而言，選用友盟新認證的低碳混凝土可以顯著及直接地降低其發展項目的碳足跡，令他們可作出知情的採購選擇，當中不涉及額外的程序。最近，此系列低碳產品已用於太古廣場二期發展項目，支持客戶達成其「科學基礎減量目標」(SBT) 的減碳承諾。

另外，在實現碳中和混凝土的遠景目標之前，為了支持「零碳排放」計劃，我們為客戶提供了碳補償服務，該服務可通過經過驗證的補償方案來抵消項目中混凝土中所含的碳排放。



Support the City's Transformation

支持城市轉型

With the vision to be a livable, competitive and sustainable "Asia's World City", the Hong Kong Government continues to implement different strategic planning on land and infrastructure development. Alliance is committed to support the city's development with concrete and aggregates solutions.

- **Highway - New Key Roads To Cut Congestion**
- **Airport - Expansion to Reinforce Aviation Leadership**
- **Housing & Business Development - Increased Land Supply for Better Living**

為實現把香港發展成為宜居、具競爭力及可持續發展的「亞洲國際都會」的願景，政府持續實施不同的土地及基建發展戰略規劃。友盟一直致力以混凝土和石料方案來支持香港的發展。

- **高速公路 - 紓緩交通擠塞的主要幹道**
- **機場 - 擴展以鞏固空運領導地位**
- **房屋及商業發展 - 增加土地供應以改善生活**

Highway – New Key Roads To Cut Congestion

高速公路 – 紓緩交通擠塞的主要幹道

Like many metropolitan areas across the world, Hong Kong is facing long-term traffic problems of growing congestion and inadequate transport systems. Building strategic highways not only can relieve congestion and offer fast connections between residential, business and cultural hubs, it also facilitates the city's transformation to a more efficient, livable city.

與許多國際大都會一樣，香港面臨長期交通擠塞和運輸系統不完善的問題。建設策略性高速公路不僅可以緩解交通擠塞，快速連結各住宅、商業和文化中心，還可以促進香港向更高效、更宜居城市的轉型。



Trunk Road T2
T2主幹路



VIRTUAL REALITY



As the new strategic key road in Kowloon, the Route 6 will link between West Kowloon, Kai Tak and Tseung Kwan O. Upon commissioning of the entire Route 6, it is estimated that the journey time during peak hours between Yau Ma Tei and Tseung Kwan O will be substantially reduced from more than 1 hour to about 12 minutes.

全新的六號幹線將連接西九龍、啟德和將軍澳，是九龍區的策略性重點通道。待整條六號幹線啟用後，估計繁忙時間由油麻地至將軍澳的行程時間將從超過1小時大幅減少到大約12分鐘。

View new Route 6 project location in 360
360度俯瞰六號幹線位置

Alliance is committed to support the city's development with concrete and aggregates solutions. Besides offering aggregates solutions to the Tseung Kwan O - Lam Tin Tunnel in the past years, in 2020, we started to support Bouygues Travaux Publics for two major highway projects under the Route 6 - Trunk Road T2 of the Kai Tak Development and Central Tunnel of Central Kowloon Route. It was the partnership we built for more than 25 years and the can-do attitude that brought us together for such important projects.

友盟一直致力以混凝土和石料方案來支持香港的發展。除了在過去幾年為藍田-將軍澳隧道提供石料方案外，我們還在2020年開始支持BOUYGUES TRAVAUX PUBLICS展開兩個六號幹線主要項目，包括啟德發展計劃 - T2主幹路及中九龍幹線 - 中段隧道工程。兩家公司在過去建立超過25年的合作關係及我們堅持做得到的態度是促成這些重要合作項目的關鍵。

Kai Tak Development- Trunk Road T2 啟德發展計劃 - T2主幹路

DURATION OF PROJECT : MID 2019-2025

The Trunk Road T2 comprises the construction of approx. 3.4 km long of dual two-lane trunk road with 3.1 km is formed of a tunnel, ventilation, administration buildings, and other associated works. The concrete volume of the project is around 166,000m³ with the estimated daily volume of 500-1,200m³.

T2主幹路作為香港6號幹線的一部分，項目包括興建一條長約3.4公里的雙程雙線主幹道而當中約3.1公里為隧道及建造通風大樓，行政大樓以及其他相關工程。預計總混凝土量為166,000立方米包括每日混凝土量為500-1,200立方米。

"Being one of those who drives to work every day, I know how frustrating to be stuck in a traffic jam. These projects will be a great relief for the heavy traffic generated by the West Kowloon development, improving overall citizen mobility, especially those who live in the Kowloon district. That's what actually drives us, to contribute to the city's evolution by our building material solutions", said Kevin Man, Sales and Marketing Manager of Alliance. "The Trunk Road T2 involved a total of 166,000m³ concrete, and around 1,000 m³ daily pour for the D-Wall Panel at the beginning of the project. It needed bespoke delivery solution with professional experience and close coordination between different parties to ensure the project milestone achieved."

「作為眾多每天駕車上班人仕的一份子，我非常明白塞車的苦況。這些新道路項目將大大緩解因西九龍地區發展帶來的交通擠塞，改善整體市民的流動性，尤其是住在九龍區的居民。事實上，通過建材方案為城市發展作出貢獻正是我們的主要工作動力。」友盟銷售和市場推廣經理文健初說。「T2主幹路需要共約166,000立方米混凝土，其中工程前期的地下連續牆興建期間每日澆注量約為1,000立方米。為確保達成項目里程碑，我們必須利用過往的專業經驗，貼身定制交付方案，並與項目各方保持密切溝通和協調。」

Central Kowloon Route- Central Tunnel 中九龍幹線-中段隧道工程

DURATION OF PROJECT : MID 2019-2025

The works includes the construction of approx. 2.8 km dual three-lane trunk road comprising 1.5 km long pilot tunnel, 41m long & 33m long cut-and-cover tunnels at Yau Ma Tei & and Ma Tau Kok respectively, and foundation work for Ho Man Tin ventilation building. The concrete volume of the project is around 346,000m³ with the estimated daily volume of 400-1,000m³.

工程項目包括一條長約2.8公里的雙程三線中九龍幹線中段隧道、一段約1.5公里的先導隧道、兩條位於油麻地約41米長和位於馬頭角約33米長的隧道，以及何文田通風大樓的地基。預計總混凝土量為346,000立方米，每日混凝土量為400-1,000立方米。

Regarding the projects' technical design, Sam Yip, Technical Manager of Alliance shared: "Our experience and approved Mix ID from Liantang Boundary Control Point project is crucial to enhance the overall efficiency. For example, we achieved maturity test that fulfilled the requirement in different grades of "10MPa at 8 hours and 27MPa at 18 hours with 27°C water curing, which end up with a lot of time saving to our customers. Also, our newly invented Value-Added Products with special performance features and green benefits could help our customers get better grade on BEAM Plus and reduce their projects' environment impact."

關於項目的技術設計，友盟技術經理葉穎森表示：「我們的過往經驗及在蓮塘口岸工程已獲批的混凝土統一編號對提高整體效率至關重要。例如我們完成了成熟度測試，在不同等級的混凝土中達到在27°C水固化下，8小時10MPa和18小時27MPa的強度，最終順利幫助客戶節省了大量時間。而我們新研發具有特殊功能和環保效益的增值產品可以幫助客戶在綠建環評計劃取得更好的成績，並減少其項目對環境的影響。」

Airport – Expansion to Reinforce Aviation Leadership 機場 - 擴展以鞏固空運領導地位

With its positioning as a regional logistics hub, Hong Kong continues to invest in its logistics and trading development to support the region's economic growth. Hong Kong International Airport (HKIA) is constantly enhancing its capacity to cater for the growing demand. Its various expansion projects, including the Three-Runway System (3RS), SkyCity and the Cingleot Premium Logistics Centre at Kwo Lo Wan are vital to drive Hong Kong's future.

香港因應其區域物流樞紐的定位，持續投資於物流和貿易的發展，以支持該區的經濟增長。目前機場的主要擴展項目包括三跑道系統、航天城和位於過路灣的青洲高端物流中心，以上均對推動香港的未來發展至關重要。



Alliance has contributed to construction of the 3RS since 2017. Speaking of the major challenges of aggregates supply to the 3RS, Michael Xu, Sales & Marketing Manager - Southern China of Alliance said, "Whether they be large or small projects, consistently meeting customers' expectation is not easy. It's a fact that our aggregates supply is highly relied on the Mainland quarries. We have to constantly strengthen our capability to mobilize resources, so that we can meet some basic requirements like the stable supply, consistent and good product quality."

自2017年以來，友盟已為三跑道系統的建設作出貢獻。談到向三跑道項目供應石料所面臨的主要挑戰，友盟華南區銷售與市場推廣經理徐森表示：「無論項目的大小，始終如一地滿足客戶期望並不容易。事實上我們的石料供應仍然高度依賴內地石礦場。我們必須不斷增強資源管理的能力，以滿足一些基本客戶要求，例如穩定的供應、一致的和良好的產品質量。」

Think Out Of The Box To Make Things Possible

Sometimes there are hurdles due to the site environment or special technical requirements, Michael believes – think out of the box to make things possible to the customers is the key. "We have encountered transportation problems in the 3RS project by Gammon, which was located at a new reclamation area with no land access and the water depth was not enough for barge delivery. The project also required special products which were not widely available in the market. We finally work out a solution with dumb lighter barge and fulfilled the order with new material sources."

突破規範，令不可能變成可能

徐森認為，不時會因地盤環境或特殊技術要求而遇到阻礙，所以能夠突破規範，為客戶把不可能變成可能十分重要。「例如我們在金門的三跑道項目中遇到的運輸問題，因該項目位於新的填海區，沒有陸路運輸，而水深亦不足以使用駁船。該項目需要的特殊產品在市場上並不容易找到。我們最終採用了對水深要求較低的無動力輕駁船的運輸方案，並靠著不同的石料供應源成功完成了訂單。」

New Perspective of Technical Support

For the Cingleot Premium Logistics Centre, Alliance has been appointed to be the concrete supplier for both the foundation and main contract works since 2019. With high international standards of environmental certification, such as BEAM Plus Gold and LEED Gold, technical support to the projects is important. The project's column structures required large quantity of Grade 80 high strength concrete, which has a relatively weak high-temperature resistance. Sam Yip, Technical Manager of Alliance said, "Due to the substantial dimension of the project's column structures, the heat generated from the cement hydration was a challenge for construction works. It's crucial to protect the cast concrete from the risk of thermal cracking. In accordance to the project specification, the peak temperature of Grade 80 concrete mix shall not exceed 85°C. Our solutions were to adjust the mix design by controlling the cementitious content and adopt higher percentage of secondary cementitious materials to lower the in-situ peak temperature."

技術支持新方向

自2019年以來，友盟已被委任為青洲高端物流中心地基和主要工程合同的混凝土供應商。項目需符合高標準的國際環境認證，例如綠建築評級認證和LEED金級認證，因此對項目的技術支援很重要。工程的樁柱結構需要大量GRADE80高強度混凝土，這種混凝土的耐高溫性相對較弱。友盟技術經理葉穎森表示：「因工程樁柱的尺寸龐大，水泥在水化過程中產生的熱量是建築過程的一大挑戰，需要確保混凝土澆注時不會出現熱裂化。根據工程規範，GRADE80配方混凝土最高溫度不可超過85°C。我們的解決方案是通過控制水泥份量和採用較高比例的摻合材料來調整配方，以降低混凝土構件的最高溫度。」

Housing & Business Development – Increased Land Supply for Better Living 房屋及商業發展 - 增加土地供應以改善生活

It is no exaggeration to say that the housing problem and living environment are the most pressing issues of Hong Kong. To cope with the increasing population and improve people's living quality, the Hong Kong Government continues to explore new strategies to enhance land supply. The Tung Chung New Town Extension (TCNTE) and Kai Tak Development are two of the major development projects being taken forward by the Government in recent years.

毫無疑問，房屋和居住環境是香港最迫切的問題。為了應付不斷增加的人口和改善人民的生活質素，香港政府不斷探索新的戰略來增加土地供應。東涌新市鎮擴展及啟德發展計劃是政府近年推行的兩個主要項目。



Source: Wikimedia Commons

With the mission to build a livable city, Alliance has actively participated in these two projects by providing concrete solutions. **Beta Wong**, Senior Customer Service Manager at Alliance, said both projects faced the same challenge - the complex underground environment.

友盟以建設宜居城市為使命，通過提供混凝土方案積極參與了這兩個項目。公司高級客戶服務經理王衛政表示，這兩個項目都面對著相同的挑戰 - 複雜的地下環境。

New Town Development – Tung Chung, Area 99 and 100

As the first batch of reclaimed land in Tung Chung, Area 99 and 100 are expected to provide about 10,000 public housing units in 2024. "It's challenging to fulfill a total of 185,000m³ concrete supply in such a tight schedule. Besides different unforeseeable underground parameters in the newly reclamation area, we had to meet the stringent technical requirements for deep foundation works. It's also a tough experience to support 2 bored piles parallelly on the same day. With a daily traffic flow of over 100 trucks, the 2 sites sharing the same entrance caused significant logistics pressure. Finally, all these technical and logistics issues were solved through our seamless collaboration with the customer's project team," Beta said.

Urban Renewal – Kai Tak Development

Kai Tak Development is a huge and highly complex development project spanning over 320 hectares with the largest available land fronting Victoria Harbour. It will be developed as the second central business district, providing quality living environment for around 90,000 residents. Among all the development projects in Kai Tak, the SOGO twin-tower project has drawn much attention due to its investment size and uniqueness.

"We are excited to participate in the foundation works of this new landmark project in East Kowloon," Beta stated. "I can easily name several achievements we had. Besides overcoming the complex underground condition with our technical solutions including the tailored tremie mix, we finished 2 mega pours of 1,800m³ and 2,500m³ in 2 consecutive days, with one of them processed under thunderstorm. Also, we delivered a total concrete volume of around 8,500m³ within a week. During the critical concreting processes, I was at the site all day to manage the truck deliveries, which has been one of my most memorable week at work."

新市鎮擴展 - 東涌第99區及第100區

作為東涌的第一批填海造地，第99區及第100區預計將在2024年提供約10,000套公共房屋。「在極緊張的時間表下完成185,000立方米混凝土供應量是一個挑戰。除了克服新填海區地底各種不肯定的因素外，我們必須滿足深層地基工程極為嚴格的技術要求。我們亦經歷了同一天內支援兩大樁柱澆注的艱難任務。加上這兩個項目共用同一入口，在每天超過100輛車的流量下，物流壓力非常大。最後，所有這些技術、供應和物流問題都在友盟與客戶項目團隊的無間協作下——解決。」王衛政分享說。

市區重建 - 啟德發展區

啟德發展計劃規模龐大、項目多元，總規劃面積超過320公頃，在維港畔提供一幅最遼闊的土地。它將被開發為第二個商業中心，為約90,000居民提供優質生活環境。在啟德的所有開發項目中，SOGO雙子塔項目因其投資規模和獨特性而備受關注。

王衛政表示：「我們非常高興可以參與東九龍這個新地標項目的地基工程。我可以隨便說出我們的幾個項目成就。除了通過技術方案包括特別研發的導管混凝土，我們連續2天完成1,800立方米和2,500立方米的大型混凝土澆注，其中一天更在雷暴天氣下進行。我們在一周內便交付了總共約8,500立方米的混凝土。在關鍵的澆注過程，我整天都在地盤現場打點，這亦是我工作生涯最難忘的一周之一。」

A Year Under the Pandemic: 5 Changes We Made In 2020

疫情下的一年：2020年我們的5大轉變

It's been more than a year since the COVID-19 pandemic emerged. The pandemic has been creating long term and unpredictable impact on our lives and the global economy. To be a future-ready company and ensure our sustainable growth, we strived to assess and maintain our resilience in such a constantly evolving environment, and tried to step out our comfort zone and make new changes.

新型冠狀病毒全球大流行病已肆虐一年多。疫情已對我們的生活和全球經濟產生了長遠且不可預測的影響。為了成為一家面向未來的公司並確保可持續增長，我們努力評估和維持公司的應變能力，以迎合不斷演變的環境，走出安舒區去作出新的改變。



1

From Drills to Reality 從練習到現實

To enhance our crisis management capabilities, we have established the Business Continuity Plan (BCP) Committee and conducted BCP drill in our plants every month. Since the outbreak of COVID-19, the drills, adding other anti-epidemic measures have transformed to be our real daily practices to ensure our people's safety and the business continuity.

為了增強我們的危機管理能力，我們成立了業務持續性計劃(BCP)委員會，並每月在廠房進行BCP演練。自疫情爆發以來，為確保員工的安全和業務持續性，BCP演習和其他防疫措施已成為我們恆常工作的一部分。

2

From Protection to Prevention 從保護到預防

Our BCPs actions against COVID-19 covered full protection for our staff and business operation, including daily temperature check, wearing mask, workplace access control and disinfection, as well as other special arrangement like work-from-home and split team. In view of the evolving virus situation and increasing local clusters, we further upgraded our actions to prevent the virus to enter our workplace at the first place, e.g. arranging Germagic anti-microbial 90 days coating service in all workplaces, bi-weekly COVID-19 test for all our mixer truck drivers and field-testing technicians. Any staff who live in the buildings with confirmed cases or have close contact with COVID-19 patients were also required to take the COVID-19 test.

我們針對疫情的BCP行動涵蓋了對員工和企業營運的全面保護，包括日常溫度檢查，戴口罩，工作場所出入限制和消毒，以及其他特殊安排，例如在家工作和分拆團隊工作。鑑於疫情不斷演變和本地感染群組的增加，我們進一步升級了行動，以在源頭防止病毒進入我們的工作場所。例如在所有工作場所安排GERMAGIC90天防疫塗層服務，為我們的所有司機和地盤現場測試技術人員每兩週進行一次新冠病毒測試。而任何居住在有確診病例建築物或與確診者有密切聯繫的員工必須進行新冠病毒測試。

3

From Offline to Online 從網下到網上

The social distancing rules have fully changed the way we communicate internally and externally. While all non-essential business trips and face-to-face meetings were ceased, we utilized the video conferencing tools to conduct meetings and stay connected to each other. To minimize physical contact in the delivery process, we urgently developed the e-docket system to avoid signatures of different parties on the paper documents.

社交隔離措施完全改變了我們的內部和外部溝通方式。除了停止所有不必要的商務旅行和面對面會議，我們利用視頻會議工具進行會議及保持聯繫。為了最大程度地減少運輸交付過程中的身體接觸，我們緊急研發了電子送貨單系統，以避免不同人仕在文件上簽名。

4

From Our People to Our Community 從我們到社區

A concerted effort from all people is the key to win the battle against COVID-19. Our health and safety management used to focus on our staff, such as providing personal protective equipment and safety training to them. In this challenging time, we tried to do more by supporting the communities where we live and work, ensuring their safety by donating masks, hand sanitizers and offering full sponsor of Germagic anti-microbial 90 days coating service for the kindergartens and nursery schools in Tsing Yi.

大家齊心抗疫是戰勝疫情的關鍵。過去我們的健康和安全管理一向專注於員工，例如為其提供個人防護設備和安全培訓。在這個充滿挑戰的時刻，我們主動為我們生活和工作的社區行多一步。除了捐贈口罩及消毒搓手液，我們亦全費贊助青衣區的幼兒園和托兒所進行GERMAGIC 90天防疫塗層服務，以確保他們的安全。



5

From Today to Tomorrow 從今天到明天

Like how we adapted to other fast-moving trends of technologies, customer expectations and supply chain flow in the past, we need a positive and forward-looking mindset to turn this public health crises into opportunities, make it a drive for growth. Our lesson learnt in 2020 not only sharpened our emergency response today, but it made us stronger to meet the needs of tomorrow.

正如過去我們如何適應快速發展的技術趨勢、客戶期望和供應鏈流動，我們需要積極的前瞻性思維來應對這場公共衛生危機，努力化危為機，使其成為公司增長的動力。我們在2020年汲取的教訓不僅加強了今天的危急應變能力，更重要是我們變得更強以應對明天的需求。



OUR AWARDS *in 2H2020* 2020年下半年獎項

We are pleased to share that Alliance has received a number of awards in 2H of 2020 for our effort in safety, environmental protection, green product development, ESG disclosure and social capital building.

我們非常高興友盟在安全、環保、綠色產品研發、「環境、社會和企業管治」披露、社會資本建設等方面的努力，令公司在2020年的下半年榮獲多個獎項。

These awards are our motivation to continue our sustainability journey. By minimize negative impact of our operation to the environment and the community, support those in need, pursuing innovation and improvement in our CSR performance, we made a positive difference to our home - Hong Kong.

這些獎項是我們可持續發展之旅的動力。通過最大程度地減少公司營運對環境和社區的負面影響、支持有需要的群體、追求創新和改善在企業社會責任方面的表現，我們竭力為我們的家—香港作出貢獻。



Award 獎項

19th Hong Kong Occupational Safety & Health Award (Alliance) - Safety Performance Award

第十九屆香港職業安全健康獎 — 安全表現大獎 (友盟)

19th Hong Kong Occupational Safety & Health Award (Anderson Concrete) - Safety Performance Award

第十九屆香港職業安全健康獎 — 安全表現大獎 (現成派安混凝土有限公司)

19th Hong Kong Occupational Safety & Health Award (CSL) - Safety Performance Award

第十九屆香港職業安全健康獎 — 安全表現大獎 (混凝土力有限公司)

19th Hong Kong Occupational Safety & Health Award (Pioneer Quarry) - Safety Performance Award

第十九屆香港職業安全健康獎 — 安全表現大獎 (派安石礦(香港)有限公司)

HKCA Proactive Safety Contractor Award

香港建造商會 - 積極安全承建商獎

Build4Asia Awards 2020 - Outstanding Building Materials

BUILD4ASIA AWARDS - 傑出建築材料

HK Awards for Environmental Excellence - Sectoral Award (Merit)

香港環境卓越大獎 - 優異獎

Recognition on ESG Disclosure

「環境、社會和企業管治」披露獎

HK Awards for Environmental Excellence - WasteWise Certificate

香港環保卓越計劃
「卓越級別」減廢標誌

HKCA Safe Person-In-Charge Award

香港建造商會 - 安全負責人獎

HKCA Safe Supervisor Award

香港建造商會 - 安全監督獎

Social Capital Builder Awards 2020

社會資本動力獎2020 - 標誌獎

Hong Kong Green Organisation

香港綠色機構

Say Yes To Breastfeeding Campaign Certificate

Say Yes To Breastfeeding 證書



This Christmas secret mission team lead by our CEO was about to announce the surprise!
 由我們行政總裁領導的聖誕秘密任務團隊即將宣布驚喜!

Lonely Christmas under COVID-19 ? 疫情下的寂寞聖誕節？不可能！No Way!

Christmas is one of the most important holidays of the year. Although we couldn't celebrate and gather with all Alliance teams in a Christmas Party as usual in 2020, we surely could get into the festive spirit with a simple heartwarming gift and greetings to each other.

To thank all Alliance team members for their dedication and hard work in such a challenging year, the Company has prepared Christmas gift box to all staff.

聖誕節是一年中最重要的假期之一。2020年儘管我們無法像往常一樣在聖誕派對中與公司所有團隊一起慶祝和聚會，但我們仍可以通過簡單而溫馨的禮物和互相的問候加強節日氣氛。

為了感謝友盟所有成員在這充滿挑戰一年中的奉獻精神和辛勤工作，公司為所有員工準備了聖誕禮物盒。



The smiling eyes of our Office Assistant Crystal told us that that she loved the surprise!
 我們辦公室助理姐姐微笑的眼睛告訴我們，她很喜歡這個驚喜！



The teams were excited to receive the gift!
 各團隊收到禮物都非常興奮！

Share Our Love and Joy with the Vulnerable

Christmas is a time to share love and joy and our Alliance team loves to show our care to the vulnerable group. These gift boxes were also delivered to the drug rehabilitation centre under Caritas Hong Kong, our long term CSR partner. All members in the centre were thrilled to receive the gift.

與弱勢社群分享愛與歡樂

聖誕節是分享愛與歡樂的時刻，友盟團隊十分樂意向弱勢社群表示我們的關懷。這些禮品盒也送到我們的長期企業社會責任合作夥伴香港明愛的戒毒中心。中心的所有成員收到禮物都非常高興。

NEW FACE 新面孔

Sonia NG 吳韞賢

Hi everyone! This is Sonia, and I am pleased to join the Alliance family in Apr 2020 as a HR & Administration Officer. I have been working in Human Resources for more than 5 years. I would describe my personality as outgoing and kind. In my spare time, I enjoy hiking, sightseeing and photography. I hope my knowledge and experience can make contribution to Alliance.

大家好!我是SONIA,很高興在今年4月加入友盟大家庭,擔任人力資源及行政主任。我在人力資源方面已有5年以上經驗。因著我友善外向的性格,工作以外我喜歡遠足、觀光和攝影。希望我的知識和經驗能為友盟作出貢獻。



Raymond KONG 江焯杰

I'm Raymond. Please let me take a moment to introduce myself as the newly appointed Engineering Manager and say Hello to everyone. I have been focused on heavy industrial field especially nuclear power plant and building equipment for more than 23 years. It's definitely a great opportunity for me to work and take new challenges in Alliance. I really look forward to meeting everyone and am excited about working together for new projects.

大家好,我是RAYMOND,是新加入友盟的工程經理。過去我一直專注於重工業,尤其是在核電站和建築設備方面,累積了超過23年的經驗。加入友盟對我來說是一個重大的機遇,使我能夠在工作中接受新的挑戰。希望很快能與各位會面,並十分期待在新項目與大家的合作。



In loving MEMORY

Memorial of KL Yip

永遠懷念葉國樑

Alliance 360 MAGAZINE



www.concrete.hk

Alliance Construction Materials Ltd
友盟建築材料有限公司

Tel: +852 2862 2200

Fax: +852 2529 1035

Email: enquiry@concrete.hk

1901A One Harbourfront,

18 Tak Fung Street, Hung Hom, HK

九龍紅磡德豐街18號

海濱廣場1期19字樓1901A室