



Turner & Townsend

# Life Sciences

Global capability statement

2022





Turner & Townsend

特纳唐逊

# 生命科学

全球范围项目能力介绍

2022



# Making the difference

Delivering award-winning services in the Life Sciences sector

Turner & Townsend is a market-leading capital programs professional services company trusted to drive better business outcomes for our clients across all sectors. With complete independence from the supply chain, we put the client's interests first, protecting you by providing uncompromised service to solve your specific challenges. We turn data into insights to confidently make informed decisions faster, achieving higher levels of performance and minimizing risk for our clients.

We understand the unique challenges facing the life sciences sector. We are an organization set apart from our competition because our life science experts have come from or Life Science Industry and speak the "Language." Because of that, we understand how projects and programs work in a complex regulated environment. We are skilled in providing project and program delivery services for biotech, pharmaceutical and other life sciences-related companies around the globe. We possess a wealth of experience across all types of facilities: Labs, R&D, API, Biotech, Plasma and Medical Device manufacturing, as well as cGMP Warehouses, Infrastructure and Utility Facilities. As a result, our experienced team brings knowledge and innovation focused on developing and implementing solutions that address your needs and the circumstances supporting your business.

*My team and I at Novo Nordisk thoroughly appreciate the partnership we have with the Turner & Townsend supporting us. This foundation of trust continues to strengthen by consistent, excellent performance from the Turner & Townsend team and **their in-depth knowledge of pharmaceutical capital project management and controls.***

**Morten Nielsen**, SVP Novo Nordisk

20

years in life sciences

up to

25%

average project performance improvement

16/25

16 of top 25 pharmaceutical firms are our clients

200+

experienced pharmaceutical and life science professionals

\$200B

in capital projects under our support

# 有所作为

在生命科学领域提供屡获殊荣的服务

Turner & Townsend 是一家市场领先的资本项目专业服务公司，值得信赖，可以为各工业行业领域的客户带来更好的项目交付成果。作为完全独立于供应链的第三方，我们将客户的利益放在首位，通过提供全力的服务来帮助您解决项目上的挑战。我们将数据转化为洞察力，以协助客户自信地更快地做出明智的决策，实现更高水平的绩效并最大限度地降低客户的风险。

我们了解生命科学领域面临的独特挑战。我们是一个在竞争中脱颖而出的组织，因为我们为生命科学项目配备的团队专家皆来自生命科学行业并会说熟谙行业惯例和懂得行业“语言”。正因为如此，我们了解项目和计划如何在复杂的监管环境中运作。我们擅长为全球生物技术、制药和其他生命科学相关公司提供项目运筹和项目交付服务。我们在所有类型的设施方面拥有丰富的经验：

实验室、研发、API、生物技术、血浆和医疗器械制造，以及 cGMP 仓库、基础设施和公用设施。

因此，我们经验丰富的团队带来了知识和创新，专注于开发和实施解决方案，以满足您的需求和支持您的业务的环境。

我和诺和诺德的团队非常感谢我们与 Turner & Townsend 建立的伙伴关系。Turner & Townsend 团队在支持我们项目的过程中展现了始终如一的出色表现以及他们对制药资本项目管理和控制的深入了解，这些成为了双方不断加强了信任的基础。

Morten Nielsen, SVP Novo Nordisk

20

年生命科学  
的经验

上升至

25%

平均项目绩效改进

16/25

顶级 25 家制药  
公司中有 16 家  
是我们的客户

方案

200+

经验丰富的制药  
和生命科学专业  
人士

\$200B

资本投入  
在我们支持项目中

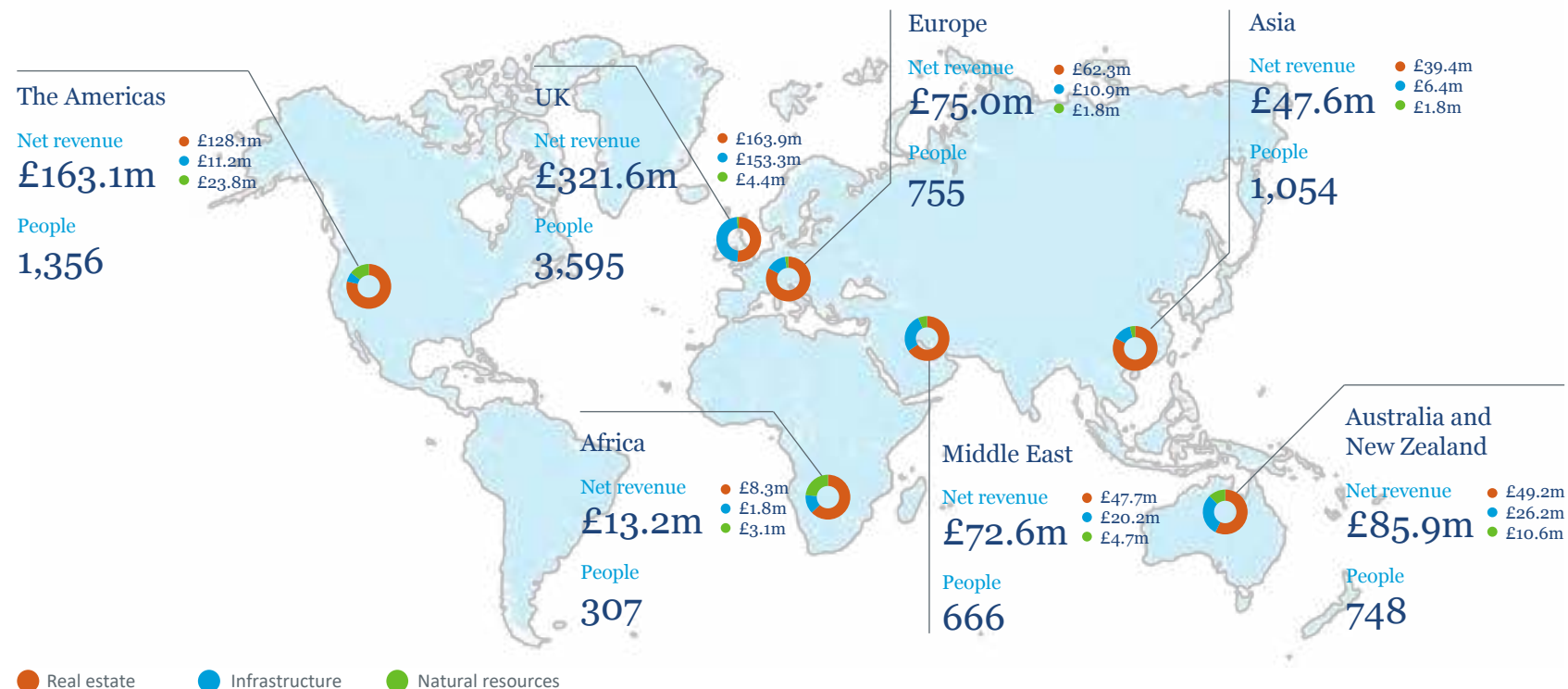
# Our global business

Through the commitment, capability and care our team brings, we build trust between clients, suppliers, governments and society. Delivering better outcomes that have a positive impact on the world around us.

We work smarter to face the challenges of the future; bringing the clarity that helps teams realise their full potential across the real estate, infrastructure and natural resources sectors.

It's how we've made the difference for 75 years.

**Transforming performance for a green, inclusive and productive world.**



## Highlights



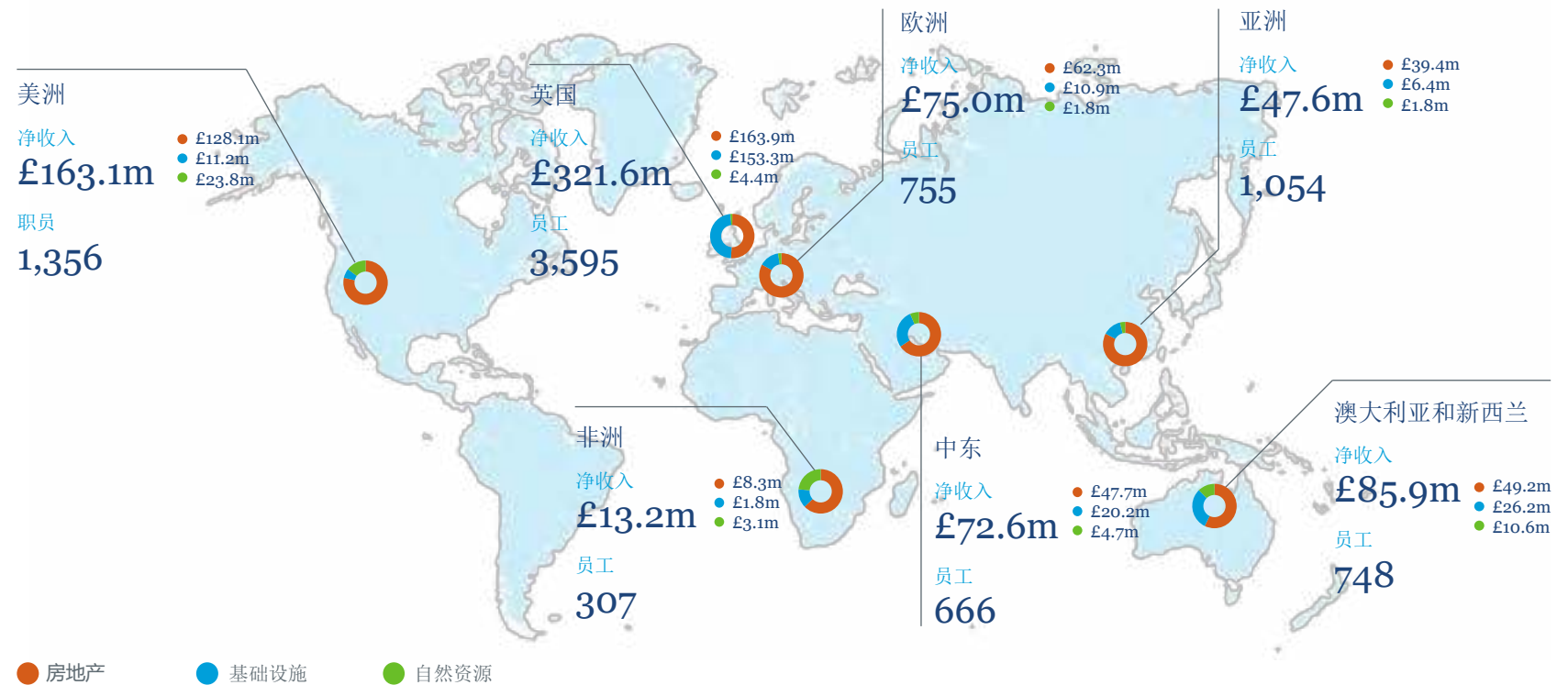
# 我们的全球业务

通过我们团队能力，我们的尽职尽责和对客户需求的全面关怀，我们在客户、供应商、政府和社会之间建立信任。通过更好地交付项目，对我们周围的世界产生积极影响。

我们更聪明地工作以应对未来的挑战：带来清晰性，帮助团队在房地产、基础设施和自然资源领域充分发挥潜力。

这就是我们 75 年来做出的改变。

我们为**实现绿色、包容和高效的世界进行而不断努力。**



## 亮点



# Our services

With our global knowledge base and local expertise, we make sure that knowledge is transferred between people, regions, and sectors to support our clients, expand our global reach, and **'deliver great project outcomes, every time, everywhere.'**

## Programme strategy and set up

Setting up for success – building the right capabilities and execution plan to drive clear programme outcomes.

## Programme management

Looking at the big picture, driving better overall outcomes, and having real confidence your programme is under control.

## Project management

Delivering project success through effective planning, the right team and rigorous controls.

## Cost and commercial management

Driving and safeguarding your commercial interests from start to finish.

## Procurement

Developing and delivering procurement and supply chain strategies that get the best results from the market.

## Controls and performance

Applying robust and proactive controls from a clear baseline to deliver confidence in programme and project performance.

## Safety, health and quality

Embedding the strategies and culture that support effective operations and maintain a safe and healthy environment.

## Technology and data

Unlocking the potential of technology, data and information modelling to drive performance, support great decision-making and create collaborative working environments.

## Advisory

Independent advice to help make your business and investments a success.

# 我们的服务

凭借我们多年对全球项目计划和交付积累的经验和对本地市场专业了解，并通过培训在全球范围各个地区和部门之间分享和传递项目经验，我们能够更好的支持我们的客户，扩大其全球影响力，并“在任何时间，任何地点交付出色的项目成果”。

## 战略和策略的制定

为成功做好准备——建立正确的能力和执行计划，以推动明确的项目成果。

## 项目集管理

着眼大局，推动更好的整体成果，并真正相信您的计划在控制之中。

## 项目管理

通过有效的规划、合适的团队和严格的控制来实现项目的成功。

## 成本和商业管理

在项目的从头到尾推动和维护您的商业利益。

## 采购

制定和交付能够从市场中获得最佳结果的采购和供应链战略。

## 控制和性能

从明确的基线应用稳健和积极主动的控制，以提高对计划和项目绩效的信心。

## 安全、健康和质量

嵌入支持有效运营和维护安全健康环境的战略和文化。

## 技术和数据

释放技术、数据和信息建模的潜力，以提高绩效、支持伟大的决策制定并创建协作工作环境。

## 咨询

帮助您的业务和投资取得成功的独立建议。



# Who we are

Investing in our client partnerships

## Strategic procurement and contract strategy

- Improved speed to market
- Risk transfer/reduction
- Best buy in the market

## Integrated delivery models

- Consistency of delivery
- Leaner models
- Strategic partnerships

## Digital transformation

- Delivery efficiency
- Enhanced collaboration
- Data capture

## Portfolio Management

- Pipeline visibility
- Established baselines
- Continuous improvement

### Life sciences sector initiatives:

- Round tables connecting peers from the sector
- Early project planning support
- Support to build internal capabilities
- Shift from tactical staff augmentation to a managed service delivery
- Thought pieces on key Life Sciences topics
- Hive benchmarking app partnerships

# 关于我们

投资于我们的客户合作伙伴关系

## 战略采购和合同战略

- 提高进入市场的速度
- 风险转移/降低
- 市场上最优的购买价格

## 集成交付模型

- 项目交付的一致性
- 更精简的模型
- 发展战略伙伴关系

## 数字化转型

- 交付效率
- 加强协作
- 数据抓取

## 项目组合管理

- 过程透明可见
- 成型的项目基础
- 持续改进

## 生命科学部门的倡议：

- 连接行业同行的圆桌会议
- 支持早期项目规划
- 支持调整客户内部项目组织能力
- 从策略人员扩充转变为托管服务交付
- 关于关键生命科学主题的思考
- 成为Hive项目造价数据应用程序的合作伙伴

# A selection of our Life Sciences clients

						
<b>Core service scope</b>	Project controls delivery	Project controls delivery	Project controls delivery	Project controls delivery, RE managed services	Project management, project controls delivery, procurement support	Project controls delivery, global platform development
<b>Regions of operation</b>	Americas 10+ projects	Europe, APAC 5+ projects	Europe 2+ projects	Global - 7 countries 12 projects	Global – 7 countries 14 projects	Europe 10 projects
<b>Engagement duration</b>	10 years	7 years	1 year	5 years	10 years	5 years

						
<b>Core service scope</b>	Project controls delivery, global model, training, procurement	Master scheduling; cost management	Project controls delivery, global PCO, global model	Project management, projects controls delivery, project validation	Projects controls, advisory & digital solutions	Project controls delivery, model development & digital solutions
<b>Regions of operation</b>	Global - 10 countries 40+ projects	Europe, Americas	EMEA, Americas 20+ projects	Americas, Europe 8 projects	Americas, Europe 5+ projects	Global - 5 countries 5 projects
<b>Engagement duration</b>	9 years	2 years	12 years	5 years	3 years	7 years

# 我们在生命科学领域的客户

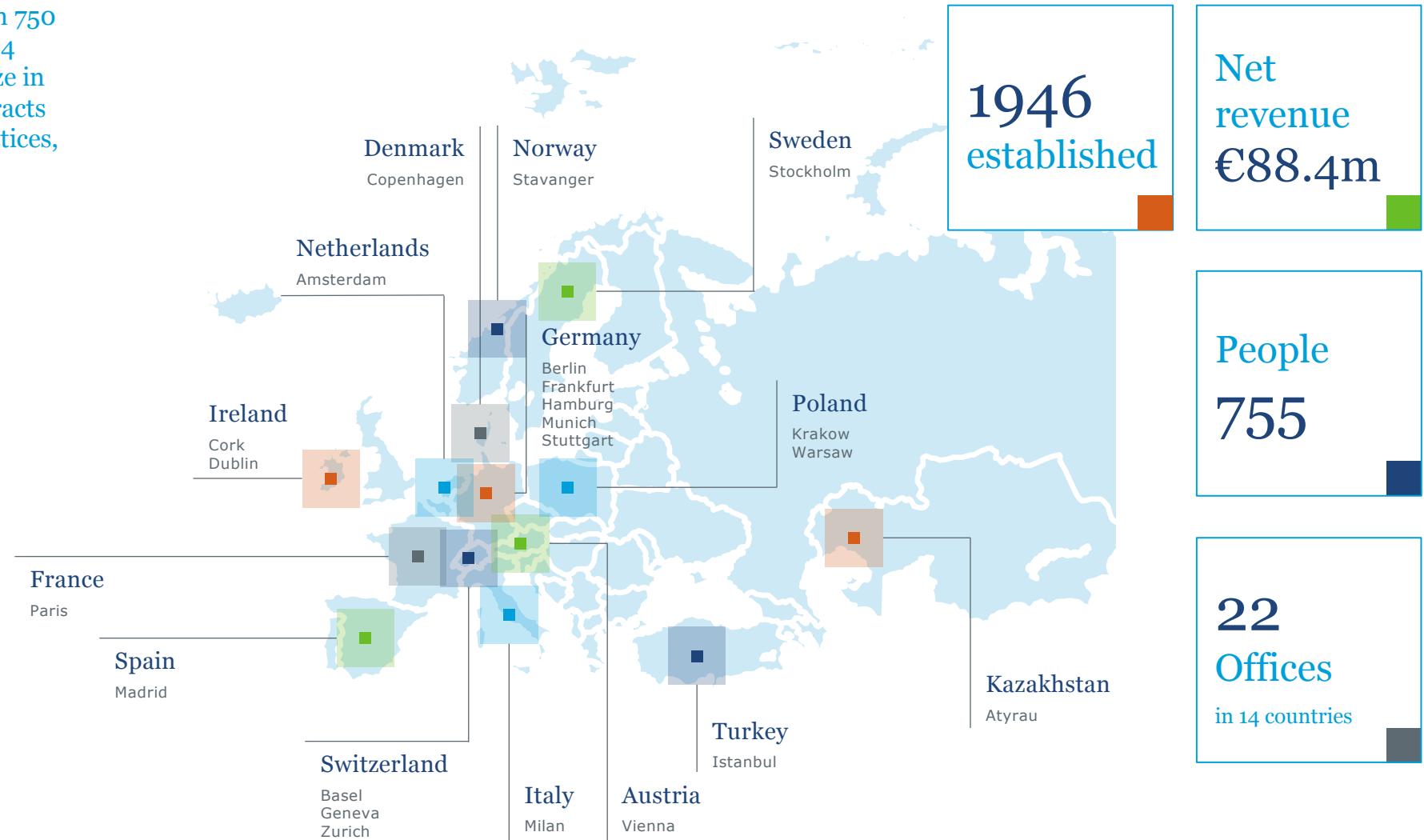
						
核心服务范围	项目控制交付	项目控制交付	项目控制交付	项目控制交付、可再生能源管理服务	项目管理、项目控制交付、采购支持	项目控制交付、全球平台开发
经营区域	美洲 10+ 个项目	欧洲、亚太地区 5+项目	欧洲 2+ 项目	全球 - 7 个国家 12个项目	全球 - 7 个国家 14个项目	欧洲 10个项目
项目合同时间	10 年	7 年	1 年	5 年	10 年	5 年

						
核心服务范围	项目控制交付、全球模型、培训、采购	主调度; 成本管理	项目控制交付、全球 PCO、全球模型	项目管理、项目控制交付、项目验证	项目控制、咨询和数字解决方案	项目控制交付、模型开发和数字解决方案
经营区域	全球 - 10 个国家 40 多个项目	欧洲、美洲	欧洲、中东和非洲、美洲 20多个项目	美洲、欧洲 8个项目	美洲、欧洲 5+项目	全球 - 5 个国家 5个项目
项目合同时间	9 年	2 年	12 年	5 年	3 年	7 年



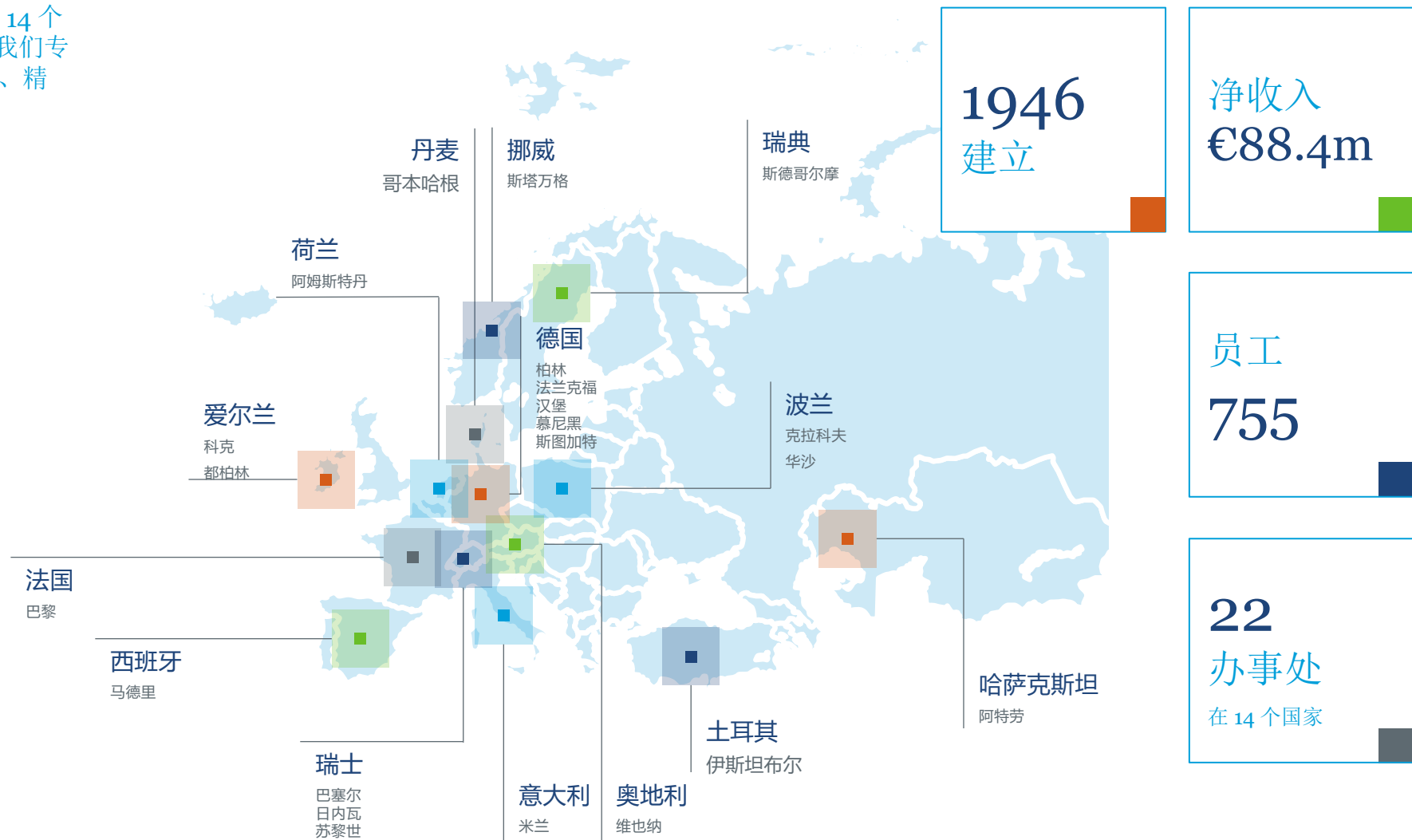
# Europe

Our Europe team comprises of more than 750 employees, working across 22 offices in 14 countries. Within the region, we specialize in project and cost management, risk, contracts and procurement, lean construction practices, and life cycle asset management.



# 欧洲

我们的欧洲团队由 750 多名员工组成，在 14 个国家的 22 个办事处工作。在这些地区，我们专注于项目和成本管理、风险、合同和采购、精益施工实践和生命周期资产管理。



# Our projects in Europe



## **Confidential Biotech Client** **Global Project Controls Partnership**

The client is a leading biotech company operating in the field of development, manufacturing and distribution of plasma-derived and recombinant medicinal products.

We are providing Cost Engineering, Project Validation, Integrated Scheduling, Risk Management, and Change Management services.



## **Syngenta** **EMEA Framework**

We have put in place a team to systematically implement recommendations centred around robust and appropriate management processes, governance, assurance and reporting. We have introduced a system of consistent and compliant project controls processes across the EMEA capital programme including the development of a suite of innovative commercial control processes, supported by tools and systems.



## **Johnson & Johnson** **EMEA Framework**

Turner & Townsend is providing Project Control services across Europe

We are providing Cost Engineering, Integrated Scheduling and Reporting services.

We are supporting Johnson & Johnson in designing and steering their Real Estate and Workplace Strategy solutions.



## **Roche** **Global Corporate Fit Out Framework**

Turner & Townsend was awarded Global Corporate Fit out partner in 2018

We have provided Project and Cost Management services to their real estate projects globally

Scope of project include collocating into single office locations, retrofits and refurbishments.



## **Eli Lilly** **IE2B Expansion Project**

A pharmaceutical manufacturing building extension with intermediate mezzanine floors & roof mounted plant equipment along with associated site development works

Turner & Townsend is providing expert project planning and scheduling services to the Cork site team.



## **Novo Nordisk** **Global Project Controls Support**

Turner & Townsend has provided project controls services at their project sites in the USA on major facility projects.

Our services have included Cost Engineering, Project Validation, Integrated Scheduling and Risk Management services

We are providing schedule validation support to their growing portfolio in Denmark.

# 我们在欧洲的项目



## 机密生物技术客户

### 全球项目控制的伙伴关系

该客户是一家领先的生物技术公司，在血浆衍生和重组医药产领域品开发、制造和分销开展业务。

我们提供成本工程、项目验证、综合调度、风险管理和变更管理服务。



## Syngenta 先正达

### 欧洲、中东和非洲框架搭建

我们已经建立了一个团队来系统地实施以稳健和适当的管理流程、治理、保证和报告为中心的建议。我们在 EMEA 欧洲、中东和非洲资本计划中引入了一套一致且合规的项目控制流程系统，包括开发一套由工具和系统支持的创新商业控制流程。



## Johnson & Johnson 强生公司

### 欧洲、中东和非洲框架搭建

Turner & Townsend 在欧洲提供项目控制服务。

我们提供成本工程、综合调度和报告服务。

我们正在支持强生公司设计和指导他们的房地产和工作场所战略解决方案。



## Roche 罗氏

### 全球企业装修框架搭建

Turner & Townsend 于 2018 年被授予全球企业装修合作伙伴。

我们为他们的全球房地产项目提供项目和成本管理。

项目范围包括并置到单个办公地点、改造和翻新。



## Eli Lilly 礼来公司

### IE2B 扩展项目

带有中间夹层楼和屋顶安装设备的制药制造大楼扩建工程以及相关的场地开发工程。

Turner & Townsend 正在为科克现场团队提供专业的项目规划和调度服务。



## Novo Nordisk 诺和诺德

### 全球项目控制支持

Turner & Townsend 在其位于美国的项目现场就主要设施项目提供项目控制服务。

我们的服务包括成本工程、项目验证、综合调度和风险管理服务。我们正在为他们在丹麦不断增长的产品组合提供进度验证支持。



# Our projects in Europe



**Roche**  
**Global Partner RE Fit-out Framework**

Turner & Townsend was awarded Global Corporate Fit out partner in 2018 to support Roche on their global portfolio with Project & Cost Management services. Projects are ranging from new offices to retrofits and refurbishment.

As part of the framework we supported Roche Copenhagen Colocation project. The project aim is to collocate the Pharma and Diagnostics office in Denmark to a single office location. The new space is approx. 3,000m<sup>2</sup>.



**AstraZeneca**  
**Project Laureate 2015-2019**

Turner & Townsend were engaged to provide cost management and assurance, project control support and risk management on a laboratory and office project.

This included supporting the Programme Director in the preparation of regular cost updates to senior AstraZeneca execs.



**AstraZeneca**  
**Portfolio Managed Services**

Turner & Townsend provides a Managed Service delivery of Project Controls for a portfolio of major capital projects.

Our services include Cost Management, Estimating, Risk Management, Planning and Contract Administration. We support AstraZeneca in the development and implementation of best practice Project Control processes across their portfolio.



**Biogen**  
**Next Generation Manufacturing Plant**

Turner & Townsend was seconded to Biogen to provide project, commercial management and advisory services. The scope of services of our site-based technical team include risk management, change control, claim management, scheduling support, procurement management, establishing reporting systems and overseeing EPCM Contractor activities.



**Idexx Labs**  
**Idexx Laboratories**

Turner & Townsend was appointed to support the client in all the project phases and oversee the design and construction of the building

Our Change Management process significantly reduced the impact of variations

Through our Schedule Management we achieved substantial minimization of risks as well as optimization of timelines.



**Roche**  
**MPU 180 Full Utilization**

Turner & Townsend delivered project controls for the installation of a new multi-purpose train in an existing API production building

We were responsible for cost management, progress tracking, reporting, and change management to ensure the project was delivered on time.

# 我们在欧洲的项目



## Roche 罗氏

### 全球合作伙伴可再生能源装修框架搭建

Turner & Townsend 于 2018 年被授予全球企业装修合作伙伴，通过项目和成本管理支持罗氏的全球产品组合。项目范围从新办公室到改造和翻新。

作为框架的一部分，我们支持罗氏哥本哈根场地出租项目。该项目旨在将丹麦的制药和诊断办公室并置到一个办公地点。新空间约为3,000平方米。



## AstraZeneca 阿斯利康



### 2015-2019 年项目获奖者

Turner & Townsend 受聘为实验室和办公室项目提供成本管理和保证、项目控制支持和风险管理。

这包括支持项目总监为阿斯利康高级管理人员准备定期成本更新。



## AstraZeneca 阿斯利康



### 投资组合管理服务

Turner & Townsend 为一系列主要资本项目提供项目控制的托管服务。

我们的服务包括成本管理、估算、风险管理、计划和合同管理。我们支持阿斯利康在其产品组合中开发和实施最佳实践项目控制流程。



## Biogen 渤健



### 下一代制造工厂

Turner & Townsend 被借调至 Biogen 提供项目、商业管理和咨询服务。我们基于现场的技术团队的服务范围包括风险管理、变更控制、索赔管理、调度支持、采购管理、建立报告系统和监督 EPCM 承包商活动。



## Idexx Labs



### 艾德克斯实验室有限公司

#### 艾德克斯实验室

Turner & Townsend 被任命在所有项目阶段为客户提供支持，并监督建筑的设计和施工。

我们的变更管理流程显著降低了变化的影响。

通过我们的进度管理，我们实现了风险的显著最小化以及时间线的优化。



## Roche 罗氏



### MPU 180 充分利用

Turner & Townsend 为在现有 API 生产大楼中安装新的多用途火车提供项目控制。

我们负责成本管理、进度跟踪、报告和变更管理，以确保项目按时交付。

# Our projects in Europe



## Atrazeneca

### Portfolio Managed Services

Turner & Townsend provides a Managed Service delivery of Project Controls for a portfolio of major capital projects

Our services include Cost Management, Estimating, Risk Management, Planning and Contract Administration.



## Pfizer

### Global Partner RE Fit-out Framework

Turner & Townsend was selected to provide project management and cost management services for Pfizer

Our tasks included strategic planning and brief definition, preparation of the project budget; programme and progress monitoring; change control management; and coordination of all design & construction interfaces.



## Fujifilm Diosynth Biotech

### Global Project Controls Support

Our services include Cost Engineering, Project Validation, Integrated Scheduling and Risk Management services. We are providing project controls services on a global level at their project sites in the USA and at a corporate level in Denmark. Together with advisory services by designing key project controls processes for their growing portfolio.



## Novartis

### MYFORTIC 2&3

Our team provided regular forecasts and optimal cost control; the assessment of invoices from vendors saved the client significant costs. Turner & Townsend provided project management services on internal building modifications, utilities, HVAC and process equipment for the upgrading of an existing production plant.



## Boehringer Ingelheim

### LSCC project

Turner & Townsend was commissioned with the complex task of scheduling the site projects to ensure that the dependencies within each site project and at the interface to the LSCC project were properly coordinated to meet the tight schedule. The scope of services included setting up, defining and controlling the program schedule, its progress control as well as target/actual comparisons and analyses.



## Philips Healthcare

### Philips VitalHealth Software

Philips selected Turner & Townsend to be Project and Cost Managers as well as Client Representatives on the VitalHealth Ede redevelopment and fit-out projects.

Our scope included managing the design phase with selected consultants, creating the project budget estimate and supporting Philips throughout these key initial steps.



# 我们在欧洲的项目



**Atrazeneca 阿斯利康** 

**投资组合管理服务**

Turner & Townsend 为主要资本项目组合提供项目控制的托管服务。

我们的服务包括成本管理、估算、风险管理、计划和合同管理。



**Pfizer 辉瑞** 

**全球合作伙伴可再生能源装修框架搭建**

Turner & Townsend 被选中为辉瑞提供项目管理和成本管理服

务。我们的任务包括战略规划和简要定义、项目预算的准备；计划和进度监测；变更控制管理；以及所有设计和施工界面的协调。



**Fujifilm Diosynth Biotech** 

**全球项目控制支持**

我们的服务包括成本工程、项目验证、综合调度和风险管理服务。我们在美国的项目现场和丹麦的公司层面提供全球层面的项目控制服务。通过为其不断增长的投资组合设计关键项目控制流程，提供咨询服务。



**Novartis 诺华**

**MYFORTIC 2&3**

我们的团队提供定期预测和最优成本控制；对供应商发票的评估为客户节省了大量成本。Turner & Townsend 为现有生产工厂的升级提供内部建筑改造、公用设施、HVAC 和工艺设备的项目管理服务。



**Boehringer Ingelheim** 

**勃林格殷格翰**

**LSCC 项目**

Turner & Townsend 受托负责安排现场项目的复杂任务，以确保每个现场项目内以及与 LSCC 项目接口处的依赖关系得到适当协调，以满足紧迫的时间表。服务范围包括设置、定义和控制计划进度、进度控制以及目标/实际比较和分析。



**Philips Healthcare** 

**飞利浦医疗保健**

**飞利浦 VitalHealth 软件**

飞利浦选择 Turner & Townsend 担任 VitalHealth Ede 重建和装修项目的项目和成本经理以及客户代表。

我们的范围包括与选定的顾问一起管理设计阶段、创建项目预算估算并在这些关键的初始步骤中为飞利浦提供支持。



# Our projects in Europe



## Janssen Belgium



### Cost Risk Assessment

Turner & Townsend provided an independent quantitative cost risk analysis of the project, based on the project's approved estimate, schedule, and identified risks and uncertainty

We identified key drivers of the cost and schedule variability to help focus the project team on the top risks to be addressed



## AstraZeneca



### Project Laureate

Turner & Townsend are engaged to provide Cost Management, Assurance, Project Control Support and Risk Management. This includes supporting the Programme Director in the preparation of robust and clear regular cost updates to senior AZ execs and participation in cost workshops with senior AZ Global Engineering management.



## GSK



### Chemistry and Pilot Manufacturing Hub

We have been supporting GSK for many years, providing project management and project controls services. Turner & Townsend enhanced levels of control by carrying out a 10 project snapshot review to assess five key aspects of each project and suggest and deliver improvement. This was subsequently used as a template for project readiness.



## Opportunity North East



### Bio-therapeutics Hub

Turner & Townsend encouraged the early development of Room Data sheets to ensure that critical room elevations were produced early, testing the individual room functionality and suitability for the bespoke scientific equipment and procedures.



## Scottish National Blood Transfusion Centre



We recognise a building of this nature requires onerous design criteria in relation to the differential pressures between two areas. We managed the team and contractor in undertaking the design and physical work to meet the necessary obligations. This involved a highly iterative process of achieving the required pressure differential between two areas and then adding further areas while maintaining the original differential.



## Imperial College London



### Molecular Sciences Research Hub

Turner & Townsend were engaged to provide Project Management, Project Controls and Risk Management. Having to squeeze such a complex mass of engineering services into the building forced some innovative thinking on many fronts of the design and installation.

# 我们在欧洲的项目



**Janssen Belgium 扬森制药**   
成本风险评估

Turner & Townsend 根据项目批准的估算、进度以及已识别的风险和不确定性，对项目进行了独立的定量成本风险分析


我们确定了成本和进度可变性的关键驱动因素，以帮助项目团队将重点放在要解决的主要风险上



**AstraZeneca 阿斯利康**   
项目获奖者

Turner & Townsend 致力于提供成本管理、保证、项目控制支持和风险管理。这包括支持项目总监为阿斯利康高级管理人员准备强大而明确的定期成本更新，并与高级阿斯利康全球工程管理人员一起参加成本研讨会。



**GSK 葛兰素史克**   
化学和中试制造中心

我们多年来一直支持 GSK，提供项目管理和项目控制服务。Turner & Townsend 通过执行 10 个项目快照审查来评估每个项目的五个关键方面并提出改进建议并提供改进，从而提高了控制水平。这随后被用作项目准备的模板。



**Opportunity North East**   
生物治疗中心

Turner & Townsend 鼓励早期开发房间数据表，以确保及早生成关键房间立面高，测试各个房间的功能和定制科学设备和程序的适用性。



**Scottish National Blood Transfusion Centre**   
苏格兰国家输血中心

我们认识到，这种性质的建筑项目需要处理好与两个区域之间的压差。我们管理团队和承包商进行了大量的沟通对接工作，来达到项目和本地行业规范标准的对接。这是一个高度迭代的过程，在添加更多区域之前需要先处理好在两个区域之间实现所需的压差。



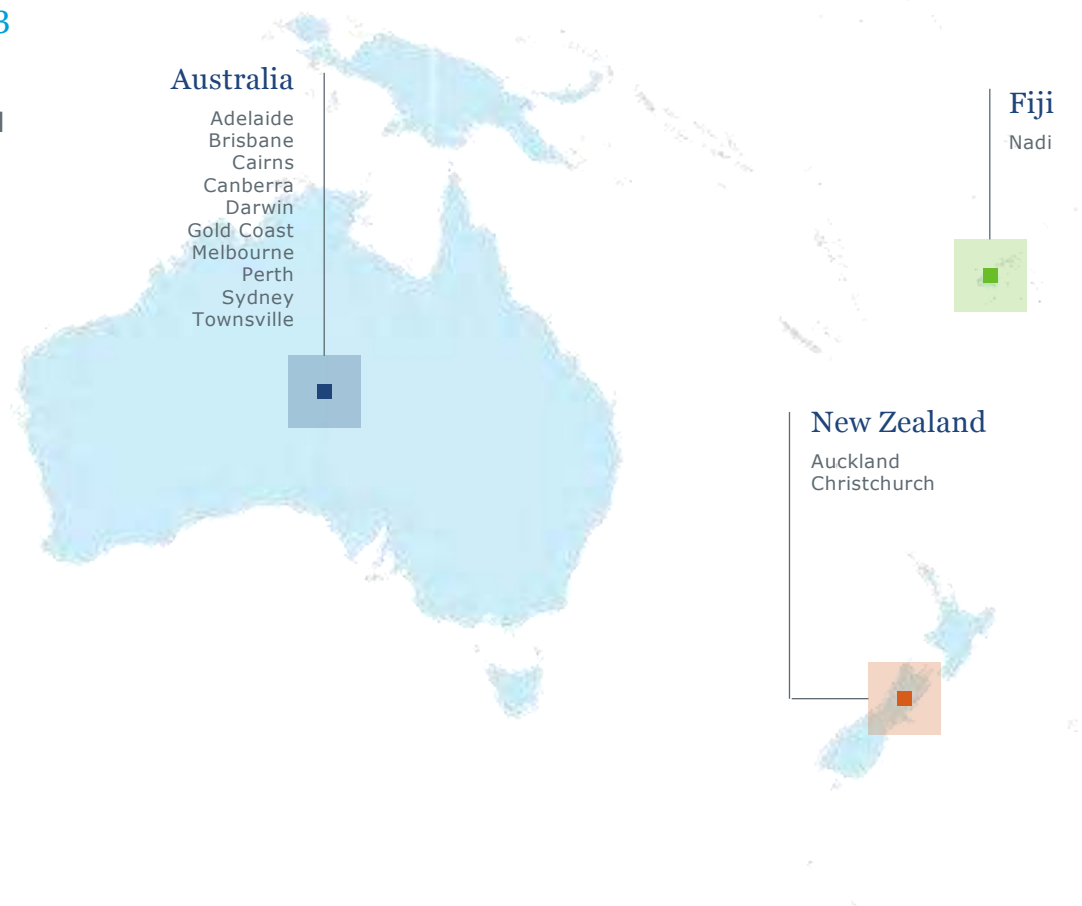
**Imperial College London**   
伦敦帝国理工学院  
分子科学研究中心

Turner & Townsend 受聘提供项目管理、项目控制和风险管理。不得不将如此复杂的大量工程服务挤入建筑物中，迫使人们在设计 and 安装的许多方面进行一些创新思考。

# Australia and New Zealand

Our Australia team comprises of more than 700 employees, working across 13 offices in 3 countries.

We have been supporting both local and global clients in the Australia for over 30 years.



Net  
revenue  
(AUD)  
\$158.6m

People  
748

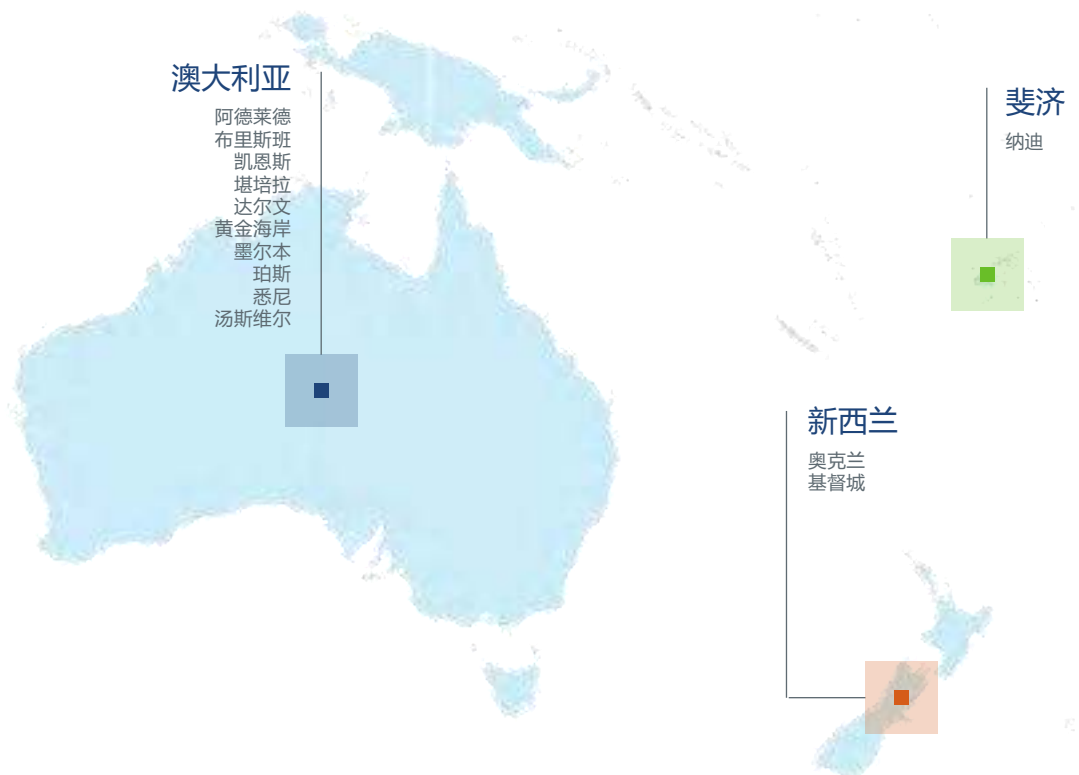
1946  
Established

13  
Offices  
in 3 countries

# 澳大利亚和新西兰

我们的澳大利亚团队由 700 多名员工组成，在 3 个国家/地区的 13 个办事处工作。

30 多年来，我们一直为澳大利亚本地和全球客户提供支持。



净收入(澳元)  
\$158.6m

员工  
748

1946  
建立

13  
办事处  
在 3 个国家



# Our projects in Australia and New Zealand



## **Atrazeneca** **North Ryde, Sydney**

Following continuous success supporting AstraZeneca across EMEA and Asia, we've been appointed to provide cost, schedule, risk and change management services.

Our best in class project controls and project reporting provides stakeholders with the flexibility and opportunity to make informed decisions that positively influence the direction of the program.



## **University of Queensland** **School of Biochemistry** **Sir Williams MacGregor** **Levels 1 & 4 Refurbishment** **Project**

We were engaged by UQ to provide project management and superintendent representative services for the project. This was delivered under the traditional fully documented lump sum construction contract method. This required us to ensure a high level of stakeholder consultation was undertaken during design and documentation.



## **CSIRO** **Australian Centre for** **Disease Preparedness**

We are appointed as the project manager and contract administrators (PMCA) for the full project lifecycle. Our technical knowledge and experience combined with our detailed understanding of the high security facilities and commonwealth processes will be used to drive project objectives.



## **M+W Group/Novartis** **Zhangjiang R&D Campus**

We were appointed in conjunction with M+W Group to perform commercial management, contract administration and project management services. Our contribution in managing the change control of the 20 MEP contractors alone reduced the amount paid by the Client by over 20 percent.



## **Confidential global pharma** **client**

Our client required robust capital processes that are able to respond to increased levels of spend, dispersed geography, and increasing diversity of technology. Sydney and Melbourne teams led the work, reviewing the existing processes and prepared and implemented a consistent and compliant methodology for our client's global capital projects.



# 我们在澳大利亚和新西兰的项目



## Atrazeneca 阿斯利康 悉尼北莱德

继在欧洲、中东和非洲和亚洲为阿斯利康提供持续成功支持后，我们被任命提供成本、进度、风险和变更管理服务。

我们一流的项目控制和项目报告为利益相关者提供了灵活性和机会来做出对项目方向产生积极影响的明智决策。



## University of Queensland School of Biochemistry

### 昆士兰大学生物化学学院 威廉斯麦格雷戈爵士 1 级和 4 级翻新项目

我们受昆士兰大学聘用，为该项目提供项目管理和学监代表服务。这是根据传统的完整记录的一次性施工合同方法交付的。这要求我们确保在设计和文档编制期间进行高水平的利益相关者协商。



## CSIRO 澳大利亚联邦科学与工业研究组织

### 澳大利亚疾病预防控制中心

我们被任命为整个项目生命周期的项目经理和合同管理员 (PMCA)。我们的技术知识和经验与我们对高安全性设施和联邦流程的详细了解相结合，将用于推动项目目标。



## M+W集团/诺华张江研发园区

我们与 M+W Group 一起被任命执行商业管理、合同管理和项目管理服务。我们仅在管理 20 名 MEP 承包商的变更控制方面所做的贡献就将客户支付的金额减少了 20% 以上。



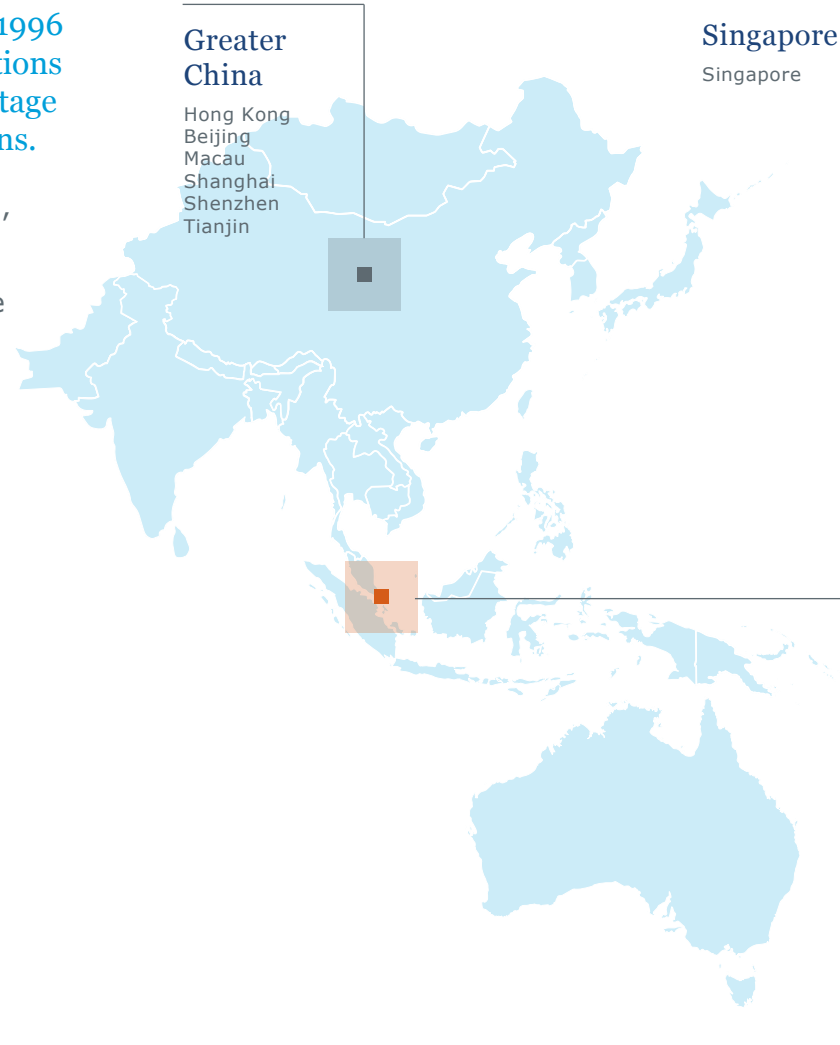
## 机密的全球制药客户

我们的客户需要强大的资本流程，以应对不断增加的支出水平、分散的地理位置和日益多样化的技术。悉尼和墨尔本团队领导了这项工作，审查了现有流程，并为我们的客户的全球资本项目准备并实施了一致且合规的方法。

# Our APAC presence (Singapore and China)

Turner & Townsend first established in China in 1996 and our exposure to its diversity of cultures, locations and aspiration to stride forward onto the global stage has excited our business since we set up operations.

We set up business operations in Shanghai, Beijing, Tianjin, Shenzhen, Hongkong, Macau and Taiwan covering all the China business effectively. Our Shanghai office is the regional headquarters for the China supporting local, regional and global clients across a wide range of sectors.



Our Singapore office is the regional headquarters for the Southeast Asia region supporting local, regional and global clients across a wide range of sectors.

We have helped deliver many notable projects supporting several key government initiatives in developing Singapore as a strategic location for global organisations, a data centre hub for the region, a world leader for education, a major tourist destination, and a research and development centre for hi-tech and pharmaceutical.



# 我们在亚太地区的存在（新加坡和中国）

Turner & Townsend 于 1996 年首次在中国成立，自从我们开始运营以来，我们接触到中国文化、地点的多样性以及迈向全球舞台的愿望使我们的业务备受激励。我们在上海、北京、天津、深圳、香港、澳门和台湾设立了业务机构，有效地覆盖了中国的所有业务。我们的上海办事处是中国的区域总部，为各行各业的本地、区域和全球客户提供支持。



我们的新加坡办事处是东南亚地区的区域总部，为各行各业的本地、区域和全球客户提供支持。

我们已经帮助交付了许多重要的项目，支持将新加坡发展为全球组织的战略位置、该地区的数据中心枢纽、世界领先的教育、主要旅游目的地和高科技研发中心的的多项重要政府举措-技术和制药。



# Our projects in the APAC region



## China Novartis Institutes for Biomedical Research Co., Ltd Novartis Zhangjiang R&D Campus

Turner & Townsend was appointed in conjunction with M+W Group to perform commercial management and project management supporting services. Project management services performed included: managing the design deliverables produced by local design institute and perform the duties and tasks as the project manager for building C6 and C11-1, coordinate and manage all project related tasks including design and construction.



## Edwards Lifesciences Medical Devices Facility

Turner & Townsend have been appointed by Edwards Lifesciences to provide project management services during the design, construction, testing & commissioning and validation phases. By implementing procedures for managing the design, procurement, construction and documentation for this project we were able to assist Edwards in developing a facility that meets their requirements, budget and timescale.



## Johnson & Johnson Indonesia Plant Refurbishment & Expansion, Jakarta

Turner & Townsend team was required to fully understand in depth the existing site conditions, and working closely with the Johnson & Johnson team the dependencies and constraints of the business operations.

This led to the recommendation to undertake further detailed studies of the existing technical support areas to determine the feasibility of the proposed scope of works before proceeding, Jakarta



## AMGEN Facility Expansion, Singapore

Turner & Townsend has been commissioned to deliver cost management services to support Amgen on the high level Cost Estimate for 2 design options for Amgen consideration, which covered new-build "shell & Core" & Interior Fit-out cost, and to support Amgen to cross-check the construction cost is within reasonable market ranges and within Amgen's budget.



## Wyeth Pharmaceutical Wyeth Pharmaceutical Suzhou

Turner & Townsend carried out the 2nd phase expansion to Wyeth Pharmaceutical's Suzhou facility to manufacture an identified range of products in an efficient manner and as cost-effectively as possible.





# Our projects in the APAC region



**China Novartis Institutes for Biomedical Research Co., Ltd 中国诺华生物医学研究院有限公司**

**诺华生物医学张江研发中心**

Turner & Townsend 与 M+W Group 一起被任命执行商业管理和项目管理支持服务。项目管理服务包括：管理当地设计院的设计成果，履行C6和C11-1楼项目经理的职责和任务，协调和管理包括设计和施工在内的所有项目相关工作。



**Edwards Lifesciences 爱德华兹生命科学  
医疗器械设施**

Turner & Townsend 已被爱德华兹生命科学指定在设计、施工、测试和调试以及验证阶段提供项目管理服务。通过实施该项目的设计、采购、施工和文件管理程序，我们能够帮助爱德华兹生命科学开发满足其要求、预算和时间表的设施。



**Johnson & Johnson Indonesia 强生印尼  
雅加达工厂翻新和扩建**

Turner & Townsend 团队需要深入了解现有场地条件，并与强生团队密切合作，了解业务运营的依赖关系和制约因素。

这导致建议对现有技术支持领域进行进一步的详细研究，以确定拟议工作范围的可行性，然后再继续进行。



**AMGEN 安进  
设施扩建，新加坡**

Turner & Townsend 已受委托提供成本管理，以支持安进为安进考虑的 2 个设计选项的高级成本估算，其中包括新建“外壳和核心”和内部装修成本，并支持安进交叉检查建筑成本是否在合理的市场范围内和安进的预算范围内。



**Wyeth Pharmaceutical 惠氏制药  
惠氏制药苏州**

Turner & Townsend 对惠氏制药的苏州工厂进行了第二阶段的扩建，以尽可能高效且具有成本效益的方式生产一系列确定的产品。



# Our US presence

Turner & Townsend has been supporting clients in the U.S. since 1995. From each of our 18 offices, we provide an essential combination of local knowledge and global best practice in program, project, and cost management.

## US Highlights

25 years

18 Regional offices

700 people



-  TURNER & TOWNSEND REGIONAL OFFICE LOCATION
-  TURNER & TOWNSEND STAFF-BASED, SUPPORT HUB
-  TURNER & TOWNSEND LIFE SCIENCE SERVICE HUB



In 2019, Turner & Townsend merged with Taurus Project Controls to create **Turner & Townsend Taurus**, our Boston-based Life Sciences Center Of Excellence (COE). We have a diverse team of over **100 subject matter experts** (SMEs) positioned throughout the U.S.

Through our Life Sciences COE, we can deliver the full range of professional project services from front-end planning and project delivery, to fully-managed services and program management offices (PMOs).

# 我们在美国的存在

Turner & Townsend 自 1995 年以来一直为美国客户提供支持。我们在 18 个办事处中的每一个办事处都提供本地知识和计划、项目和成本管理方面的全球最佳实践的重要组合。

美国  
亮点

25  
年

18

个区域办事处

700  
员工



-  TURNER & TOWNSEND REGIONAL OFFICE LOCATION
-  TURNER & TOWNSEND STAFF-BASED SUPPORT HUB
-  TURNER & TOWNSEND LIFE SCIENCE SERVICE HUB



2019 年, Turner & Townsend 与 Taurus Project Controls 合并, 创建了 **Turner & Townsend Taurus**, 这是我们位于波士顿的生命科学卓越中心 (COE)。我们拥有一支由 **100 多名主题专家 (SME)** 组成的多元化团队, 分布在美国各地。

通过我们的生命科学 COE, 我们可以提供从前端规划和项目交付到全面托管服务和项目管理办公室 (PMO) 的全方位专业项目服务。

# Our projects in the US



## **Novo Nordisk** **API Manufacturing Facility**

Project management and controls throughout entire project lifecycle for 1M-SF greenfield site.

Provided \$49M in cost avoidance, created direct savings of \$2M for QC lab through value engineering, regulatory submission within 2 weeks of original forecast.



## **AstraZeneca** **Americas Region Controls Support**

Project controls oversight throughout design, construction, start-up, C&Q for 71K-SF manufacturing facility and 10K-SF lab.

Forecasted within 1% of Total Approved Budget.

Achieved schedule adherence of 90% throughout the project lifecycle.



## **Genentech** **Regional Capital Projects Support**

After Roche acquired Genentech, our team supported integration efforts by providing system tools templates that merged the Genentech project controls

Delivered audit services on large vendor contracts to report compliance and performance metrics.

Provided ongoing staff augmentation for project controls and estimating to multiple types of projects within their portfolio.



## **GlaxoSmithKline** **UP 3 Project**

Undertook an independent After Action Review(AAR) providing an objective stage-by-stage review of the project to measure the performance against the project objectives and key deliverables.

Provided oversight for an infrastructure assessment of GSK's Research & Development facility



## **Confidential biotech client** **Site Master Plan Program**

Delivery of master scheduling services for the program, working directly with stakeholders including the Client's program manager and project engineers, AE firms, space planners, and contractors.

Reviewed 250 construction documents to establish a comprehensive WBS, Schedule Management Plan, and a relationally linked critical path Integrated Master Program Schedule.



## **Corden Pharma** **Facility expansion, Boulder, CO**

Cost management, schedule management, and operational qualification support as the Owner's Representative.

Implemented first of its kind cost profiling, budgeting and controls tool, giving Corden control of budgets, predictability, and confidence in how capital is managed.



# Our projects in the US



**Novo Nordisk 诺和诺德**  
**API制造设施**

在 1M-SF 新建场地的整个项目生命周期中进行项目管理和控制。  
避免了 4900 万美元的成本，通过价值工程，在原始预测的 2 周内提交监管报告，为 QC 实验室直接节省了 200 万美元。



**AstraZeneca 阿斯利康**  
**美洲地区控制支持**

项目对 71K-SF 制造设施和 10K-SF 实验室的设计、施工、启动、C&Q 进行监督。  
预测在总批准预算的 1% 以内。  
在整个项目生命周期中实现了 90% 的进度遵守率。



**Genentech 基因泰克**  
**区域资本项目支持**

在罗氏收购基因泰克后，我们的团队通过提供合并基因泰克项目控制的系统工具模板来支持整合工作  
为大型供应商合同提供审计服务，以报告合规性和绩效指标。  
为项目控制提供持续的人员扩充，并对其投资组合中的多种类型的项目进行估算。



**GlaxoSmithKline 葛兰素史克**  
**UP 3 项目**

进行独立的事后审查 (AAR)，对项目进行客观的分阶段审查，以根据项目目标和关键可交付成果衡量绩效。  
监督葛兰素史克研发设施的基础设施评估。



**Confidential biotech client**  
**机密生物技术客户**  
**场地总体规划计划**

为项目提供主调度服务，直接与利益相关者合作，包括客户的项目经理和项目工程师、AE 公司、空间规划师和承包商。  
审查了 250 份施工文件，以建立全面的 WBS、进度管理计划和相关链接的关键路径综合主计划进度表。



**Corden Pharma 科登制药**  
**设施扩建，博尔德，CO**

作为业主代表的成本管理、进度管理和运营资格支持。  
首次实施成本分析、预算和控制工具，使科登制药能够控制预算、可预测性和对资本管理方式的信心。



# Our projects in the US



## **Autolus Therapeutics, Ltd.** **Manufacturing facility fit-outs**

Lead project controls efforts for three concurrent capital projects in Maryland (U.S.) and Stevenage (England).

Deployed controls processes and tools that established consistent reporting standards across the capital portfolio in all project phases including fit out, equipment procurement, business system selection and implementation, CQV, PV, Ops Readiness, and Regulatory.



## **Gilead Sciences, Inc.** **San Francisco Campus Facility**

Provided proactive project controls and estimating support for new build projects, research and development facilities, manufacturing facilities, and fit outs.

Drive down costs and more effectively deliver new projects while building a lasting relationship and capitalizing on our global biopharmaceutical network.



## **Lonza** **Portsmouth, NH Facility Expansion**

Provided schedule management services including interactive planning sessions for milestone activity/relationships and resource loading and scheduling development for four different projects.

Created earned value, KPI, critical path, risk analysis, schedule audit, and resource planning reports.

Developed comprehensive schedules from automation design through process validation.



## **Confidential biotech client** **Regional Project Controls Support**

Provide project cost, scheduling, and risk services for two Tier 1 projects for the client's 350K-SF production facility.

Implement monthly project controls summary reports highlighting progress, performance, and forecasting for key schedule and cost indicators.

Provide support and guidance resulting in cohesive integration and enhanced data analytics globally.



## **Pfizer** **Project Phoenix**

Provided master program schedule management and project management services including master program schedule management and time related specification for Tech Transfer teams and stakeholders.

Improved planning and management process, utilizing standards and technology, directly saving 12 months on total project timeline.



## **Seagen** **Real Estate and Facilities Organization PMO**

Delivered project management and controls to implement consistent project delivery.

Improved overall cost control across all projects within the portfolio.

Led claims effort on behalf of client directly saving \$3.6M.

# 我们在美国的项目



## **Autolus Therapeutics, Ltd.**

### **生产设施装修**

为在马里兰州（美国）和斯蒂夫尼奇（英格兰）的三个同时进行的资本项目提供项目控制工作。

部署的控制流程和工具在所有项目阶段的资本组合中建立了一致的报告标准，包括装修、设备采购、业务系统选择和实施、CQV、PV、运营准备和监管。



## **Gilead Sciences, Inc.**

### **吉利德科学公司旧金山设施**

为新建项目、研发设施、制造设施和装修提供积极的项目控制和估算支持。

降低成本并更有效地交付新项目，同时建立持久的关系并利用我们的全球生物制药网络。



## **Lonza 龙沙**

### **新罕布什尔州朴茨茅斯 设施扩建**

提供进度管理服务，包括里程碑活动/关系的交互式规划会议，以及四个不同项目的资源加载和进度开发。

创建净值、KPI、关键路径、风险分析、进度审计和资源规划报告。

制定了从自动化设计到过程验证的综合时间表。



## **机密生物技术客户**

### **区域项目控制支持**

为客户的 350K-SF 生产设施的两个一级项目提供项目成本、调度和风险服务。

实施每月项目控制摘要报告，突出关键进度和成本指标的进度、绩效和预测。

提供支持和指导，从而在全球范围内实现凝聚力集成和增强的数据分析。



## **Pfizer 辉瑞**

### **凤凰城计划**

为技术转移团队和利益相关者提供主计划计划管理和项目管理服务，包括主计划计划管理和时间相关规范。

改进规划和管理流程，利用标准和技术，直接节省 12 个月的总项目时间。



## **Seagen 西根**

### **房地产和设施组织 PMO**

交付项目管理和控制以实施一致的项目交付。

改进了投资组合中所有项目的总体成本控制。

代表客户领导索赔工作直接节省了 360 万美元。



## Our team



**Jiajin Wang**

China Desk Lead EU

Associate Director, Switzerland

t: +41 78 832 0350

e: [Jiajin.Wang@turntown.com](mailto:Jiajin.Wang@turntown.com)



**Andrea Valdes Millen**

Life Sciences Lead EU

Director, Switzerland

t: +41 78 725 2610

e: [andrea.valdesmillen@turntown.com](mailto:andrea.valdesmillen@turntown.com)



**Mark Utting**

Managing Director, Switzerland

t: +41 (0) 78 954 4641

e: [Mark.Utting@turntown.com](mailto:Mark.Utting@turntown.com)

[www.turnerandtownsend.com](http://www.turnerandtownsend.com)

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## Our team



**Dan Aley**

Global Head of Industrial,  
Science and Technology

e: [dan.aley@turntown.com](mailto:dan.aley@turntown.com)



**Daniel Boreham**

Global Head of Life Sciences

e: [daniel.boreham@turntown.com](mailto:daniel.boreham@turntown.com)



**Andrea Valdes Millen**

Europe Life Sciences Lead

e: [andrea.valdesmillen@turntown.com](mailto:andrea.valdesmillen@turntown.com)



**Kevin Camponeschi**

Americas Life Sciences Lead

e: [kevin.camponeschi@turntown.com](mailto:kevin.camponeschi@turntown.com)



**Dean Mills**

APAC Life Sciences Lead

e: [dean.mills@turntown.com](mailto:dean.mills@turntown.com)

[www.turnerandtownsend.com](http://www.turnerandtownsend.com)

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